

Builders' Guide

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January 2, 1929

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors
and the Material and Equipment Trades

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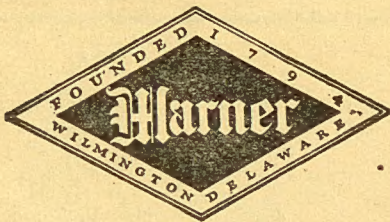
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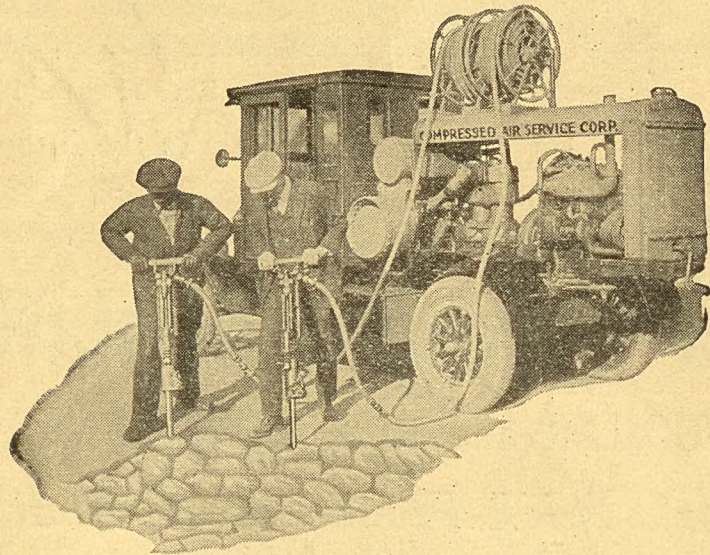
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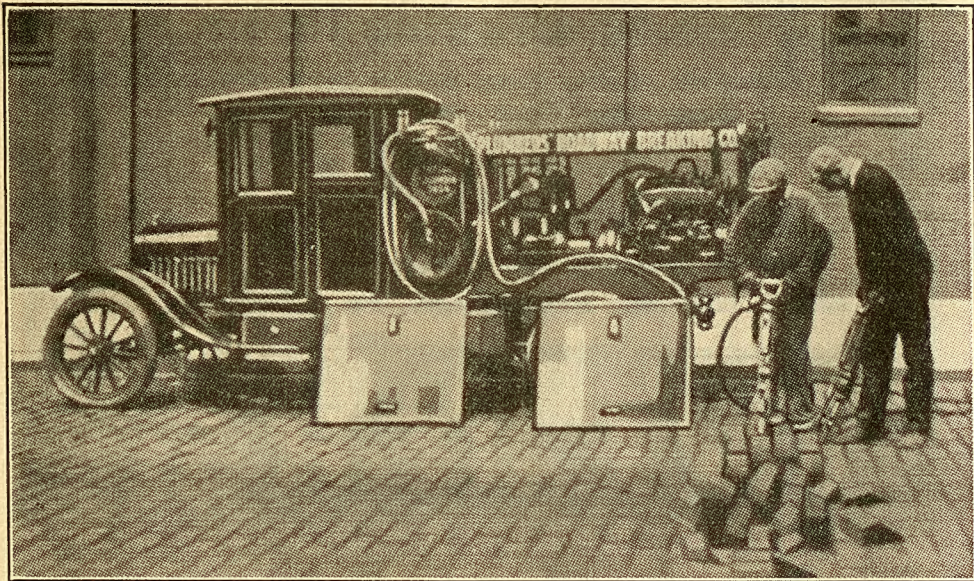
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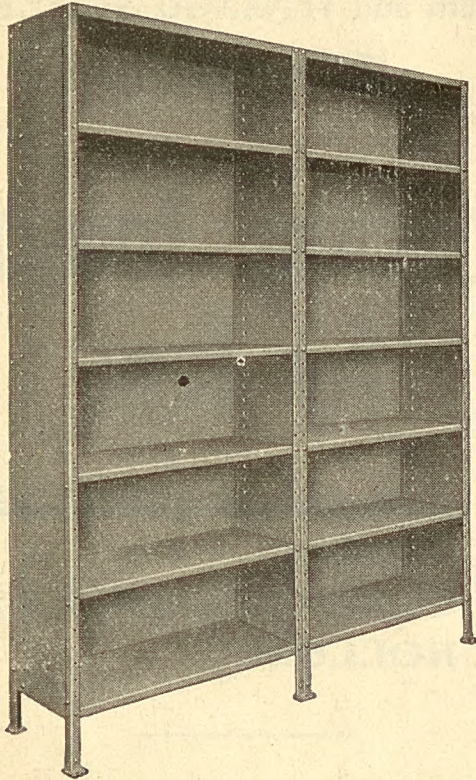
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VOLUME XLIV

Number 1

Engineering and the Building Trades

PHILADELPHIA

January 2, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Museum, Twentieth to Twenty-first Race to Vine streets, Philadelphia, \$4,000,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Franklin Institute, 15 South Seventh street, Philadelphia. Preliminary plans in progress.

Telephone Exchange Building (Oregon), South Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, H. L. Badger, vice-president and general manager, Nineteenth and Arch streets, Philadelphia. Brick. Plans in progress.

Factory, 702 North Franklin street, Philadelphia. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owners, Union Dental Instrument Manufacturing Co., Mrs. J. Ettleson, 831 Cherry street, Philadelphia. Brick, steel, concrete, 4 stories, 57x150 feet, concrete floors, rolled steel sash, elevators, electric light. Plans in progress. Charles Rose, 260 South Fifteenth street, Philadelphia, will build.

Residences (2), near Ridley Park, Pa. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, L. Curto and G. Salotti, 3139 Hamberger street, Philadelphia, Pa. Brick, 2½ stories, 16x36 feet, shingle roof, hardwood floors, hot water heat, electric light, metal lath. Owners will build and will take sub-bids.

Residences (200), Frankford avenue and Cottman street, Philadelphia. Architect, private plans. Owners, Boardman & Smith, 1524 Chestnut street, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light,

tile work. Plans in progress. Ready for sub-bids in about 3 weeks.

Residence and Garage, Chestnut Hill, Pa. Architect, H. T. Lindeberg, 2 West Forty-seventh street, New York City. Owner, Mrs. Patrick Grant, 113 West Chestnut avenue, Chestnut Hill, Pa. Brick, stucco, 2½ stories and basement, 83x30 feet, wing 36x22 feet, wing 46x24 feet, tile roof, oak, pine and cement floors, flagstone, metal lath, tile work. Architect taking revised bids due January 8th.

School, Robbins avenue and Battersby street, Philadelphia. Architect, Irvin T. Catherine, Board of Education, Southwest Corner Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, William Rowen, president; William Dicks, secretary, Southwest Corner Nineteenth and Ludlow streets, Philadelphia. Reinforced concrete, brick, granite, steel, 3 stories and basement, 219x97 feet (plumbing, heating, electric, ventilating separate), gypsum composition, slate roof, cement, maple and pine floors, hollow tile, safety treads, roof ventilators, metal windows, grills, waterproofing and dampproofing, architectural terra cotta, metal lath, tile and marble work, rolled steel sash and skylights, hollow metal sash and doors, rolled steel doors, bond, floor hardener, iron work, area gratings, excavation, screen steel partitions, linoleum floors. Owners taking bids due January 3rd.

School, Sanger and Ditman streets, Philadelphia. Architect, Irvin T. Catherine, Board of Education, Southwest Corner Nineteenth and Ludlow. Owners, Board of Education, William Rowen, president; William Dick, sec-

retary, Southwest Corner Nineteenth and Ludlow streets, Philadelphia. Reinforced concrete, brick, steel, granite, 3 stories and basement, 210x97 feet (plumbing, heating, electric, ventilating separate), gypsum, slate composition roof, cement, maple and pine floors, hollow tile, safety treads, roof ventilators, metal window grills, waterproofing and dampproofing, architectural terra cotta, metal lath, tile and marble work, rolled steel sash and skylights, hollow metal sash and doors, rolled steel doors, bond, floor hardener, iron work, area gratings, excavation, screens, steel partitions, linoleum floors. Owners taking bids due January 3rd.

School, Front and Spencer streets, Philadelphia. Architect, Irvin T. Catherine, Board of Education, Southwest Corner Nineteenth and Ludlow street. Owners, Board of Education, William Rowen, president; William Dick, secretary, Southwest Corner Nineteenth and Ludlow streets, Philadelphia. Reinforced concrete, brick, granite, steel, 3 stories and basement, 219x97 feet (plumbing, heating, electric, ventilating separate), gypsum, slate composition roof, cement, maple and pine floors, hollow tile, safety treads, roof ventilators, metal window grills, waterproofing and dampproofing, architectural terra cotta, metal lath, tile and marble work, rolled steel sash and skylights, hollow metal sash and doors, rolled steel doors, bond, floor hardener, iron work, area gratings, excavation, screens, steel partitions, linoleum floors. Owners taking bids due January 3rd.

Factory, Erie avenue and F street, Philadelphia. Architect, Clarence E. Wunder, 1520

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Locust streets, Philadelphia. Owners, I. Fischman & Son, Tenth and Allegheny avenue. Brick, reinforced concrete, 1 and 2 stories, 200,000 square feet. Plans in progress. (Note location and size.)

Store Building, 1226 Chestnut street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, L. Jaffe & Sons, Second and Green streets, Philadelphia. Brick, steel, limestone, 5 stories and mezzanine, 19x105 feet. Plans in progress. Architects will take bids in 10 days.

Apartment House, Kemble, West of Ogontz avenue, Philadelphia, \$300,000. Architect, I. Demrhiok, 1701 Walnut street, Philadelphia. Owners, Blum & Brown, 1001 Pennsylvania Building, Philadelphia. Brick, limestone, steel, 4 stories, 177x133 feet, slag roof, hardwood floors, elevators, vapor heat, tile and marble, electric light, oil burners. Owners are sub-letting.

Bank and Office Building (add.), 3701 North Broad street, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Bank of Philadelphia & Trust Co., Charles E. Beury, chairman Building Committee, 3701 North Broad street, Philadelphia. Brick, steel, terra cotta trim, 11 stories and basement, 70x110 feet, slag roof, steam heat, electric light, tile and marble work. Architect will take bids about January 15th.

Apartment House, Northwest Corner Broad and Olney avenue, Philadelphia, \$500,000. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, John Loughran & Son, Sixteenth and Grange streets, Philadelphia. Brick, 4 stories, 300x90 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work. Owners will build and will sub-let.

Theatre, Fifty-second and Stiles streets, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owner, Charles Segal, care of Apollo Theatre, 1237 North Fifty-second street, Philadelphia. Brick, steel, concrete, 2 stories, 78x100x250 feet, gypsum, slag roof, hot air heat, tile, marble and terrazzo work. Plans will be complete and architect will take bids in one month.

Residences (10), North side Longshore street, West of Shelbourne street, Philadelphia, \$51,000. Architect, private plans. Owner, O. C. Wehmeyer, 1006 Cottman street, Philadelphia. Brick, 2 stories, 16x30 feet, hot water heat, electric work, slag roof, oak and yellow pine floors, tile work. Permit issued.

Store, 2500 South Bonoffon street, Philadelphia, \$8,500. Architect, private plans. Owner, J. Thomas, 23 South Robinson street, Philadelphia. Brick, 2 stories, 16x69 feet, oak and yellow pine floors, slag roof. Permit issued.

Stable, Northwest Corner James and Cott-

man streets, Philadelphia, \$5,000. Architect, private plans. Owner, J. Gerko, Adam and Cottman streets, Philadelphia. Concrete blocks, 1 story, 120x32 feet, slag roof. Permit issued.

Residences (4), 2234-40 East Venango street, Philadelphia, \$8,000. Architect, John Brown, 3418 Weikel street, Philadelphia. Owner, George McKinney, 2254 East Tioga street, Philadelphia. Brick, 2 stories, 14 feet 6 inches x 25 feet. Permit issued.

Residences (2), 3578-80 Weikel street, Philadelphia, \$4,000. Architect, John Brown, 3418 Weikel street, Philadelphia. Owner, George McKinney, 2254 East Tioga street, Philadelphia. Brick, 2 stories, 14 feet 6 inches x 25 feet. Permit issued.

Department of Supplies, 312 City Hall, T. F. Watson, Philadelphia, taking bids due January 9th at noon. Certified check, 5 per cent. For: No. 113—Fire clay cement and fire brick. No. 118—Asphalt sand, crushed pebbles and rocks, filler dust, asphalt cement.

Residences (77), 20th street, 73rd and 74th avenues. Architect, private plans. Owners, Gale and Witty, Inc., Ogontz avenue and Walnut Lane, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owners will sub-let.

Factory (alts.), 34 East Logan, St., Philadelphia. Architect, private plans. Owners, Automatic Temperature Control Co., Inc., G. H. Johnson, President, 2502 North Lawrence street, Philadelphia. General interior alterations. J. G. T. Miller, 3136 North Taylor St., Phila., taking sub-bids due as soon as possible.

Residences (62), Castor road and Fanshaw street, Philadelphia. Architect, private plans. Owner, Louis Segal, 6602 North 10th street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Commissioners of Fairmount Park, 127 City Hall, Philadelphia. Alan Corson, engineer, taking bids due Jan. 8th at noon for: Lumber, bricks, cement, gravel, hardware, machinery, paints, glass, iron, steel, castings, plumber supplies, stoves, tin, border birches, settees, terra cotta pipe, rubber goods, road and lubricating oils, broken trap rock, tree guards, top soil, paving, curbing, cut granite, vitrified bricks, concrete sidewalks, curb, cleaning wells. Certified check or bond for \$500,000.

John N. Gill Const. Co., builders, formerly of City Center Bldg., Phila., have opened new offices in the Franklin Trust Bldg., Philadelphia.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Squash Courts, Willow Grove avenue, Chestnut Hill, Pa. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owners, Philadelphia Cricket Club, on premises. Demolition, excavation, Chestnut Hill stone, dampproofing (Arvon), flagstone, limestone, brick work (Sayre or Fisher), cement floors, iron work, slag roof (Barrett specified), copper work, shingle roof, rolled steel and copper skylights, ventilators (John Call Co.), hardware, mill work, plastering (gypsum or Beaver), painting, glazing, plumbing, electric work (grading drives, screens, weather stripping reserved), 1 story, 38x42 feet, 28x56 feet. Contract awarded J. W. Moffley, 3rd, Germantown and Bethlehem Pike, Philadelphia.

Store Building, Sixty-ninth and Ashby road, Philadelphia. Architect, private plans. Owner, Paul J. Devitt, 1102 South Second street, Philadelphia. Brick, cast stone, 2 stories and basement, 40x75 feet, slag roof, cement and oak floors, elevators, cast stone, ornamental iron work, steam heat, iron work, electric light, metal lath, tile and marble work, kalamein doors. Contract awarded Louis Rosengarten, Otis Building, Philadelphia.

Apartment House and Garage, Ridge and Fairmount avenues, Philadelphia. Architect, private plans. Owner, care of builder. Brick, steel, limestone, 4 stories, apartment size undecided, garage, 25x70 feet, slag roof, hardwood floors, 3 elevators, vapor heat, electric light, tile work. Contract awarded Louis Cherry, 806 North American Building, who will sub-let.

Alterations and Additions, 6448 Cherokee street, Philadelphia. Architect, R. W. McCaskey, Otis Building, Philadelphia. Owner, Philip P. Fryberger, on premises. General interior alterations. Contract awarded Raymond Riling, 1425 West Venango street, Philadelphia.

Manufacturing Building, Northeast Corner Kennedy and Richmond streets, Philadelphia, \$9,000. Owners, Charles Lennig & Co., on premises. Brick, 1 story, 80x48 feet. Contract awarded A. Raymond Raff Co., 1635 West Thompson street, Philadelphia.

Building (alts.), Southwest Corner Seventh and Spruce streets, Philadelphia. Architect, George I. Lovatt, 220 South Sixteenth street,

Philadelphia. Owners, St. Joseph's Catholic Asylum, on premises. Painting, glazing, plastering, carpentry, brick work, demolition, electric work, hardware, plumbing, tile and marble work, maple floors, metal windows. Contract awarded Knox Landers, 1132 Vine street, Philadelphia.

Hospital, Forty-eighth and Spruce streets, Philadelphia. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Osteopathic Hospital, Dr. Helden, Nineteenth and Spring Garden streets, Philadelphia, D. C. B. Balbirnie, chairman, 1408 Spruce street, Philadelphia. Brick, steel, concrete, 4 stories, 58x156 feet, slag roof, composition and tile, linoleum floors, hollow tile, elevators, safety treads, roof ventilators, metal weather strip, waterproofing and dampproofing, brass pipe, ornamental iron work, iron stairs, bond, fire doors, vapor heat, electric light, metal lath, tile and marble. Contract awarded William Steele Sons Co., Fifteenth and Cherry streets, Philadelphia.

Alterations and Additions, Southeast Corner St. Martin's lane and Moreland avenue. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owners, George Woodward, Inc., North American Building, Philadelphia. Concrete work, slate roof, tile work, rolled steel sash, stone work, mill work, painting, glazing, carpentry (plumbing, heating, electric reserved), flagstone. Contract awarded Ralph Borthwick, 6511 Woodstock street, Philadelphia.

Bank Building (alts.), Broad and Fairmount and Ridge avenues, Philadelphia, \$200,000. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, Northwestern National Bank, E. A. Schmidt, president, on premises. Limestone, steel, 1 story, mezzanine. Contract awarded A. Raymond Raff Contracting Co., 1635 West Thompson street, Philadelphia.

Roadway, Chestnut avenue, Chestnut Hill, Pa., \$10,000. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Fred Rosengarten, on premises. Contract awarded William Bysher, Erdenheim, Pa.

Residence (alt.), 1526 Master street, Philadelphia, \$2,000. Architect, private plans. Owner, John Morris, 311 East Price street, Germantown. Contract awarded H. W. Naulty,

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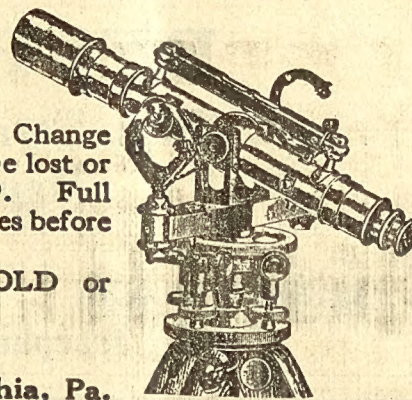
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4808 Market street, Philadelphia.

Miscellaneous Road Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, City Hall. Contract awarded. Grading. Benner street, from Lawndale to Tabor street, Philadelphia, Marino Masso, 3936 North Reese street, Philadelphia, \$5,055.51. Lawndale street, from Luzerne to Lycoming street, M. Leewright, 424 Seville street, Philadelphia, \$429.72. Jannette, from Gerhard to Monestary street, Philadelphia, M. Leewright, 424 Seville street, Philadelphia, \$330.68. Furnishing fabricated steel floor beams for Spring Garden Bridge, Philadelphia, Belmont Iron Works, Twenty-second and Washington avenue, Philadelphia, \$637.20. Redressing granite brick in city yard, John Brenton, 1637 Fairmount avenue, Philadelphia, \$1,020.

Residence (alts.), 425 West Johnson street, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, Charles F. Credo, on premises. Tile and marble work, carpentry and millwork, plastering, hot water heat, electric work, painting, glazing. Contract awarded W. C. Wright, 22 Harvey street, Philadelphia.

Mill Addition, N. E. Corner Kennedy and Eadom streets, Philadelphia, \$9,000. Architect, private plans. Owners, H. & H. Kneedler, on premises. Brick, 2nd story addition, 40x71 feet, yellow pine floors, slag roof. Contract awarded Melvin H. Grebe, 5 East Highland avenue, Philadelphia.

Packing Plant Alterations, 4142 German-town avenue, Philadelphia, \$5,000. Architect, C. B. Comstosk, 110 West 40th street, New York City. Owner, J. J. Felin, on premises. Alterations to elevators. Contract awarded H. Brockelhurst, 512 West Norris street, Philadelphia.

Manufacturing Addition, N. S. Shunk, West Swanson street, Philadelphia, \$100,000. Architect, H. H. Klein, 709 Chestnut street, Philadelphia.

delphia. Owners, American Container co., on premises. Brick, 3 stories, 68x200 feet, steel sash, cement floor, slag roof. Contract awarded Raymond Goldstein, Water and Wolf streets, Philadelphia.

Store, 2036 East Cheltenham avenue, Philadelphia, \$2,500. Architect, private plans. Owner, V. Berman, 1209 Arch street, Philadelphia. Brick 1 story, 29x73 feet, 6 inches, yellow pine floors, slag roof. Contract awarded C. M. Greenwood, 253 Penn street, Philadelphia.

Pennsylvania Construction News

Hospital, Easton, Pa., \$750,000. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Easton Hospital, H. Lehr, president, 1200 Butler street, Easton, Pa. 130 beds. Preliminary plans in progress.

Residence and Garage, Bentford road, Haverford, Pa. Architect, private plans. Owner, William Darragh, Merion Title & Trust Building, Ardmore, Pa. Stone, 2½ stories and basement, 90x78 feet, slate roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Plans in progress.

Silk Mill, East Northampton street, Wilkes-Barre, Pa. Architect, C. J. Schmitt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Michael and Joseph Simpson, care of architect. Brick, steel. Preliminary plans in progress.

School, Amityville, Pa. Architects, Scholl & Richardson, 510 Walnut street, Reading, Pa. Owners, Amity Township School Board, G. F. Becker, president, Douglasville, Pa. Sketches in progress.

School, Stony Creek Mills, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Lower Alsace Township School Board, H. Rothermel, president, Stony Creek Mills, Pa. Sketches in progress.

Boiler House, Wernersville, Pa. Architects, Maginnis & Walsh, Statler Building, Boston, Mass. Engineer, G. A. Weschler, 1010 Vermont avenue, N. W., Washington, D. C. Owners, Jesuit Novitiate, Rev. L. L. Kelly, 501 East Fordham road, New York. Architects will be ready for bids in about one month.

Stores (2), Wesley avenue and Easton road, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Glenside Trust Co., trustees, Glenside, Pa. Limestone and brick, 1 story, 65x70 feet, slag roof, wood floors, metal lath, tile work, rolled

steel skylights, ornamental iron work. Architects taking bids due January 7th.

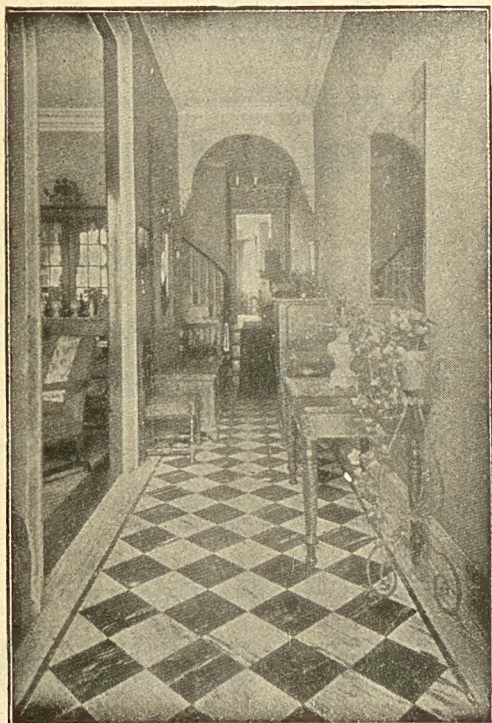
Residence, Valley Green road, near Stenton avenue, Whitemarsh, Pa. Architect, E. Tucker Carlton, 516 American National Bank Building, Richmond, Va. Owners, Mrs. M. Manly-Powers, Mayfair House, Lincoln Drive and Johnson street, Philadelphia, Pa. Frame, 2½ stories and basement, 50x32 feet, concrete work, metal lath, tile floors, plastering, granite door sills, slate roofing, Chamberlain's metal weather strip, electric work, oak and pine floors, plumbing fixtures (Standard, Mad-dock, Speakman's or Tolinson Co.), septic tank, brass pipe, hot water heat, boiler (American Radiator), American radiators. Owner taking bids and sub-bids. Plans on file Builders' Exchange, 1716 Arch street, Philadelphia.

Residence and Garage, Bala-Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement, 39x49 feet, slate roof, oak and pine floors (plumbing, heating, electric work reserved), tile work, metal lath, bond, ornamental iron work, casement windows, Kernerstor, incinerator. Architects taking bids due January 4th.

Church and Sunday School, Beaver Falls, Pa., \$250,000. Architect, George E. Savage, 1321 Walnut street, Philadelphia. Owners, First Presbyterian Congregation, A. D. Campbell, chairman of Building Committee, 720 Thirteenth street, Beaver Falls, Pa. Hollow tile, stone, 2 stories, vapor heat, electric light, slate roof, concrete floors. Owners taking bids due January 7th.

Remodeling Buildings (7), Naval Ammunition Depot, Fort Mifflin, Pa. Architect, private plans. Owners, Bureau of Yards and Docks, Navy Department, United States Government, Washington, D. C. Concrete work, floor hardener, steel and iron work, corrugated asbestos roof, lightning protection, painting. Owners taking bids due January 9th, 11 A. M.

Church and School, Lewis and Emerson avenue, East Lansdowne, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Cyril's Roman Catholic Parish, Rev. Edmond O'Shea, on premises. Stone, Indiana limestone, steel, 2 stories and basement, 146x56 feet, excavation, demolition, bond, concrete and cement, floor hardener (Penetrite or equal), structural steel, iron work, steel stairs, iron work, waterproofing (Hydrosol or equal), cinder concrete block (Straub), carpentry and mill work, pine floors, caulking (Sterling or equal), hardware, metal toilet stalls (Sanymetal or equal), kalamein doors,



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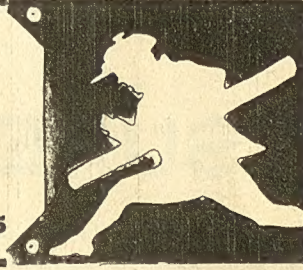
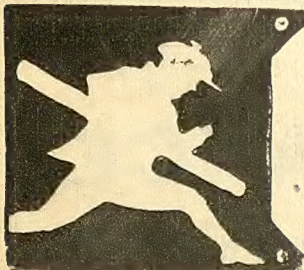
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steel sash, casement windows (Thorn or equal), composition roof (Barrett's or equal), slate roof (Penn Blue Black), Toncan ventilators, metal lath, plastering, tile work, painting, glazing, Foxcroft stone, monolithic finish, Bethayres buff stone. Architects taking bids due January 7th.

Repeater Office Building, between Altoona and Patton, Logan Township, Blair County, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, American Telephone and Telegraph Co., 195 Broadway, New York City. Reinforced concrete, brick, steel, 1 story and basement, 66x83 feet, bond, excavation, cement floors, Orthite cement hardener, concrete waterproofing, Milford pink granite, Indiana limestone, kalamain doors, iron stairs, slag roof (Barrett or equal), Campbell's metal windows, plastering, metal lath, tile, terrazzo and marble work, plumbing, Reading or Byer wrought iron pipe, Anaconda copper pipe, steam heating, Hart & Crouse boiler, radiators (American Radiator Co.), electric work. Owners taking bids due January 4th.

Repeater Office Building, Northwest Corner Rathton road and South Queen street, Springdall, Spring Garden Township, York County, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, American Telephone and Telegraph Co., 195 Broadway, New York. Brick, steel, 66x50 feet, 1 story and basement, bond (H. B. Holtz Co.), waterproofing, excavation, reinforced concrete, cement floors, concrete roofs, Orthite floor hardener, concrete waterproofing, Milford pink granite, Indiana limestone, kalamain doors, iron stairs, slag roof (Barrett or equal), Campbell's metal windows, plastering, metal lath, tile, terrazzo and marble work, plumbing, Reading or Byer wrought iron pipe, Anaconda copper pipe, steam heat, Hart & Crouse boiler, radiators (American Radiator Co.), electric work. Owners taking bids due January 4th.

Apartment and Stores, South Side, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, J. Oriando, care of architect. Brick, 3 stories, 20x60 feet, flat roof, pine floors, electric work. Owner ready for bids.

Convent, Bethlehem, Pa. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, St. John's Hungarian Roman Catholic Church, Rev. Joseph F. Reseterichs, Bethlehem, Pa. Brick, 2½ stories, 35x58 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architects will be ready for bids about the middle of February.

Residence, College Heights, Allentown, Pa. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, William Fawkes, care of engineer. Brick, stucco, 1½ stories, 33x58 feet, slate roof, hardwood floors, electric light, tile work. Engineer taking sub-bids.

Warehouse, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Hill Metal & Roofing Co., C. S. Shelley, 90 North New street, Allentown, Pa. Brick, fireproof, 2 stories, 44x125 feet. Owners will build.

Garage, South Side, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, A. Phillips, 224 West

Third street, Bethlehem, Pa. Fireproof, 3 stories, 80x120 feet, slag roof, concrete floors, steel sash, fire doors. Architect taking bids due as soon as possible.

Residence and Garage, Indian Creek Rd., Overbrook, Pa., \$75,000. Architect, Wm. Woodburn Potter, Real Estate Trust Building, Phila. Owner, Sherman R. Reed, Jr., care of Shapiro & Reed, 5230 Walnut street, Philadelphia. Sketches in progress.

Residence and Garage, Hillbrook road, Bryn Mawr, Pa., \$80,000. Architects, Durham & Irvine, 312 South Broad street, Phila. Owners, Durham & Irvine, 312 South Broad street, Philadelphia. Brick, stone, 2½ stories. Plans in progress. Owners will build and will sublet.

Apartment Houses (2), South Lansdowne avenue and Dudley avenue, Lansdowne, Del. Co., Pa. Architect, Wm. Macy Stanton, Land Title Building, Philadelphia. Owner, Mrs. Jane C. Eaton, South Lansdowne avenue, Lansdowne, Del. Co., Pa. Brick, 3 stories, 50x150 feet each, built-up and slate roof, hardwood floors, steam heat, oil burners, electric light, tile and marble work. Architect taking bids.

Residence and Garage, N. W. corner West and Paine streets, Doylestown, Pa. Architect, A. Oscar Martin, 20 Main street, Doylestown, Pa. Owner, Fred F. Martin, 20 Main street, Doylestown, Pa. Brick, 2 stories, 38x28 feet, garage, 14x22 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residences and Garages (3), Indian Creek road, Overbrook, Pa., \$50,000 each. Architect, private plans. Owner, Geo. F. Joly, Jr., 1015 North Bodine street, Philadelphia. Details undecided. Work contemplated.

Residence and Garage, Glenview road, Bryn Mawr, Pa. Architect, J. L. Conarroe, 1518 Walnut street, Philadelphia. Owner, Malcolm Adam, care of Penn Mutual Life Insurance Co., 6th and Walnut streets, Philadelphia, or Haverford, Pa. Preliminary plans in progress.

Store (Repairs), 320-26 South Center street, Pottsville, Pa. Architect, F. X. Reilly, 112 South Center street, Pottsville, Pa. Owner,

J. Raring, 22 South Center street, Pottsville, Pa. Brick, 3 stories. General fire rebuilding. Architect will be ready for bids in about 3 weeks.

Parochial School, Penna. avenue, Morrisville, Pa. Architect, private plans. Owners, Holy Trinity R. C. Church, Rev. Wm. L. Hayes, 266 Washington street, Morrisville, Pa. Preliminary plans in progress.

High School, Morrisville, Pa., \$50,000. Architect, T. B. Stockhan, Stockhan Building, Morrisville, Pa. Owners, School District, Borough of Morrisville, Pa., Wm. S. Lair, President, Morrisville, Pa. Brick, 2 stories. Plans in progress.

Pennsylvania

Contracts Awarded

Hospital, Nurses' Home, Boiler House, Newlin road and George street, York, Pa., \$650,000. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, City of York, York, Pa. Brick, limestone, steel metal lath, slag roof, cement floors, roof ventilators, bond, architectural terra cotta, nurses' home, 4 stories, 146x38 feet, boiler house, 82x52 feet, 1 story and basement, hospital, 6 stories and basement, 3 stories and basement, 233x40 feet, 2 wings, 29x42 feet, wing 87x49 feet (plumbing, electric, heating, kitchen equipment, refrigerators reserved), excavation, brick (Spring Garden Brick Co., York, Pa.), cinder block (alt.), hollow tilt, limestone (Indiana Limestone Quarriesmen's Association), granite steps, sills and platforms, waterproofing (Toch Bros. or Hydroseal), radial brick chimney, plain and reinforced concrete work, concrete floors, floor hardener, monolithic finish, linoleum floors, copper steel, iron and bronze, iron stairs, railings, area gratings (Irving or Kerlow), ladders, coal chute, wire screen, metal partitions, bronze grills and letters, metal doors and sash frames (Betz Brothers or Howell, Field & Goodard, Inc.), metal bucks and window frames, rolled steel sash and casement sash, saw-tooth skylights (Lupton sash or equal),

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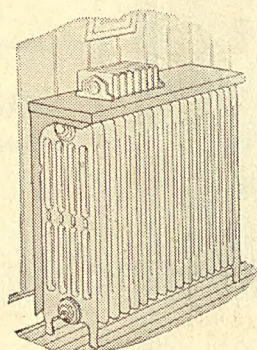
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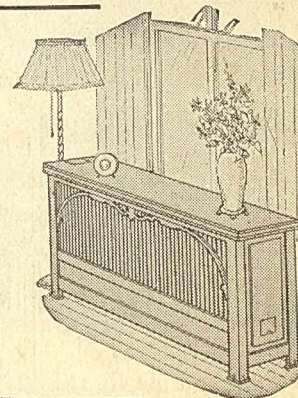
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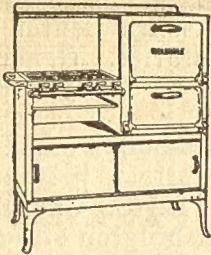
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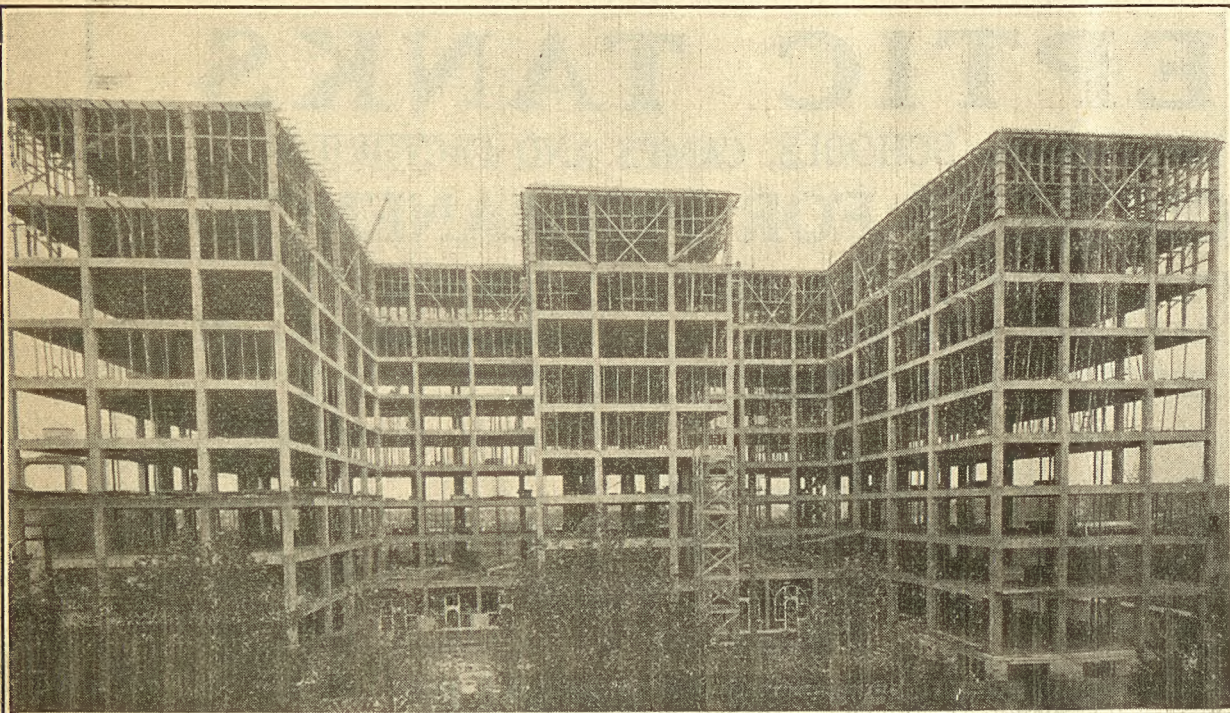
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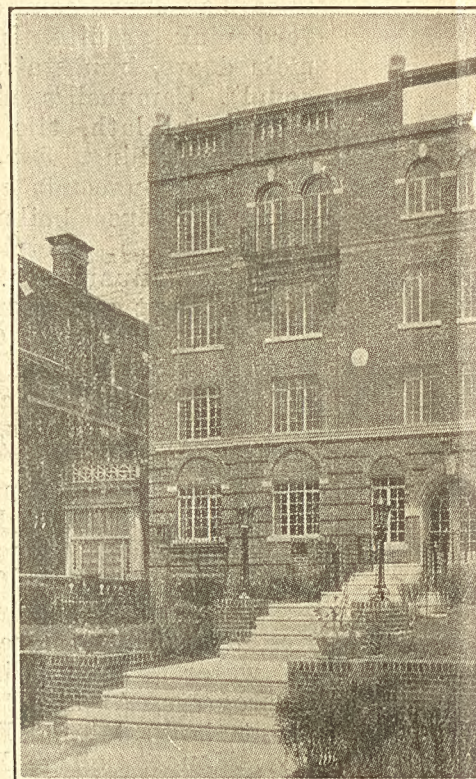
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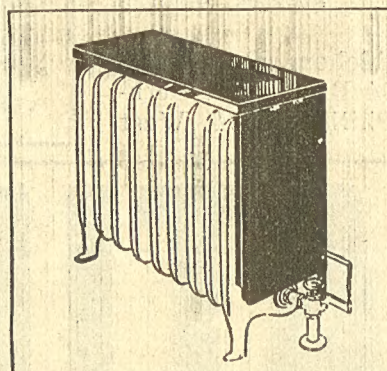
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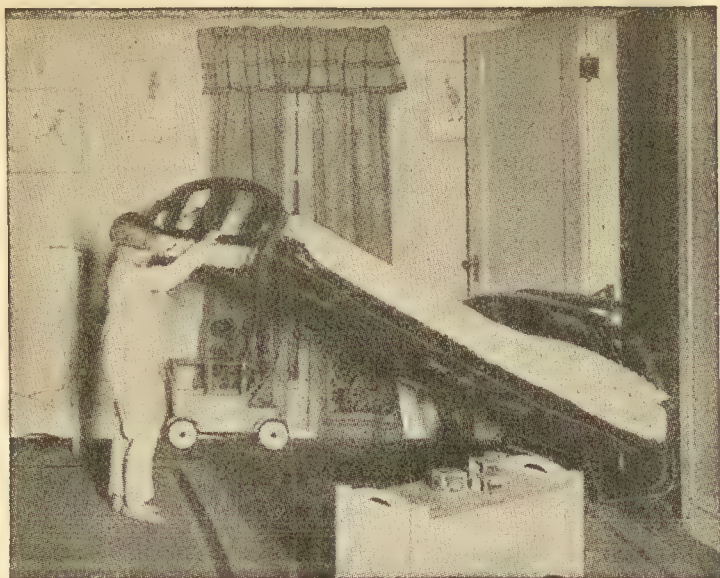
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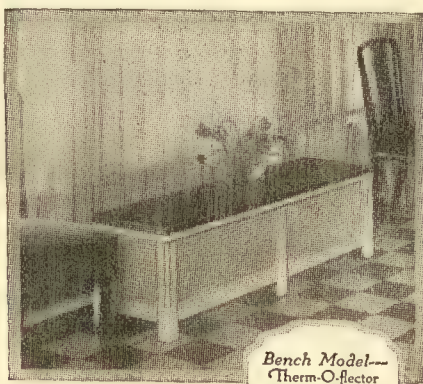
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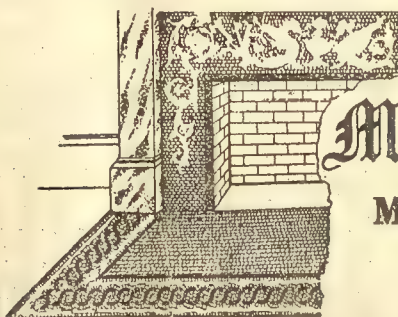
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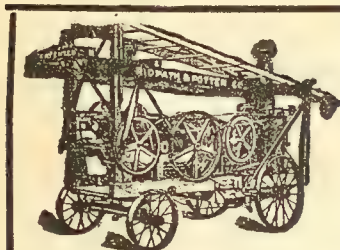
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Store and Apartment (alts. and add.), 3 Easton road, Glenside, Pa. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Simon Brody, Glenside, Pa. Brick, steel, Indiana limestone, 3 stories and basement, 76x20 feet, add. 19x12 feet, cinder concrete block, demolition, shoring, excavation, stone foundations, reinforced concrete, cement and oak floors, Majestic coal chute (iron), R. I. W. paint, cast stone (alts.), carpentry and mill work, stair work, partitions, bulk windows, wood deck floors, ironing

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boards, plastering, fireproofing, metal lath and ceiling, roofing and sheet metal work, tin roof, tin-clad doors, marble and tile work, Westfield green marble, white Tennessee marble, white tile, medicine cabinets (Columbia), plumbing, drainage, galvanized iron pipe, plumbing fixtures (Standard or equal), Merion automatic storage water heater, hot water heat, hot water boiler (Pierce, Butler & Pierce), electric work, painting, glazing, Florentine or White Moss glass, plate glass, hardware allowance \$200 (gas range, lighting and store fixtures reserved). Contract awarded Conneen Construction Co., 770 South Schuylkill avenue, Philadelphia, who are taking sub-bids due as soon as possible.

Children's Unit, Allentown State Hospital, Hanover and Quebec streets, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Allentown State Hospital, Dr. H. O. Klopp, superintendent, on premises. Reinforced concrete, brick, steel, 3 stories and basement, tile and slate roof, cement floors, hollow tile, safety treads, cast stone, metal lath, tile, marble and terrazzo, kalamein doors, bond, iron stairs, ornamental iron, cinder concrete block, caulking, steel doors, linoleum, mastic floors, metal partitions. Contract awarded Ochs Const. Co., 440 Wire street, Allentown, Pa.

Residence, Willow Grove, Pa. Architect, private plans. Owners, Weir, Inc., Glenside, Pa. Frame and stucco, 2 stories and basement, 31x29 feet, shingle roof, oak and pine floors, metal lath, tile work, casement windows, ornamental iron work. Contract awarded Sauter & Schwertner, Schaff Building, Philadelphia.

Botany Building, State College, Pa. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Penn State College, State College, Pa. Reinforced concrete, brick, limestone, steel, 3 stories and basement, 218x59 feet, Johns Mansville roof, cement floors, hollow tile, plumbing, waterproofing, metal lath, terrazzo work, bond, kalamein and hollow doors, casement windows, ornamental iron work, brass pipe, area gratings, fireproofing, steel doors, acoustical plaster. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Passenger Station (add.), Bryn Athyn, Pa. Architect, Clark Dillenback, Reading Railroad, Twelfth and Market streets, Philadelphia. Owners, Reading Railroad and Philadelphia, Newtown and New York Railway, Twelfth and Market streets, Philadelphia, Pa. Frame, 1 story, 20x20 feet, platform shelter, 13x53 feet, bond, excavation, cement work (Portland), reinforced concrete work, stone foundations or concrete foundations, sheet metal work (Toncan or Amnico), slate roof (Bangor), built-up roof (Barrett or equal), carpentry and mill work, metal lath, plastering, drainage, painting and glazing, hot water heating (Ideal Arcols heater or equal), electric work, wrought iron pipe (Reading). Contract awarded Fessmire Brothers, Huntingdon Valley, Pa.

Interlocking Signal Cabin, Harrisburg, Pa. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania

Railroad, Broad and Market streets, Philadelphia. Brick, steel, 2 stories, 38x28 feet, slate roof, cement floors, metal lath. Contract awarded S. W. Shoemaker & Son, Harrisburg, Pa.

Alterations and Additions, Moylan, Rose Valley, Pa. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owner, Howard Cooper Johnson, on premises. Stone, concrete, flagstone, granite work, steel, carpentry and mill work, painting, glazing, plumbing, plumbing fixtures (electric and vapor heat reserved). Contract awarded J. W. Worrlow, Media, Pa.

Church (add.), Elkins Park, Pa., \$25,000. Architect, private plans. Owners, First Church of Christ Scientist of Elkins Park, Walter Cutler, chairman, care of Atlantic Refining Co., Broad and Spruce streets, Philadelphia. Stone, 1 story, 24x30 feet. Contract awarded Metzger & Co., Otis Building, Philadelphia.

Store Building, Glenside, Pa. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Harry Cherry, on premises. Brick, steel, 2 stories and basement, 50x100 feet, slag roof, oak and pine floors, steam heat, electric light, tile work, metal lath, bond, ornamental iron work. Contract awarded Conneen Construction Co., 770 South Schuylkill avenue, Philadelphia.

Residence and Garage, Wallingford, Pa. Architect, private plans. Owner, J. E. Ramsey, Swarthmore, Pa. Slag, concrete block, stucco, 2½ stories and basement, 81x30 feet, irregular, hot water heat, electric light, metal lath, tile work, shingle roof, oak and pine floors, ornamental iron work. Contract awarded Powell Construction Co., Ardmore, Pa., who are taking bids due as soon as possible.

Warehouse (add.), Doylestown, Pa., \$5,000. Architect, A. Oscar Martin, 20 Main street, Doylestown, Pa. Owner, Harris Wagner, 42 State street, Doylestown, Pa. Concrete block, 2 stories, 25x34 feet, 16x36 feet, slag roof, concrete and pine floors, hollow metal sash. Contract awarded David Nyce, 329 Decatur street, Doylestown, Pa.

Residence (add.), Merion avenue and Graystone road, Merion, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia, Pa. Owner, Casper W. B. Townsend, on premises. Stone, 2½ stories and basement, 15x25 feet, tin roof, oak and pine floors, hot water heat, electric light. Contract awarded E. R. Ball, 34 South 17th street, Philadelphia.

Road Work, Pennsylvania. Owners, Penna. Dept. of Highways, Harrisburg, Pa.

Fayette Co., R-288, Sec. 7, A-4966, Perry township. One course reinforced concrete. Contract awarded Philip De Rienzo, Fayette City, Pa., \$96,966.39.

Cambria County, R-234, Sec. 2, A-5537, Reade township. One course reinforced concrete. Contract awarded Paul R. Beals, Buffalo, N. Y., \$173,812.46.

Potter County, R-103, Sec. 1, Allegheny and Ulysses townships. Grading and drainage. Contract awarded A. L. Hinaman Construction Co., Williamsport, Pa., \$93,230.74.

Columbia County, R-183, Montour township. One course reinforced concrete. Contract awarded D. W. Davis & Sons, Kingston, Pa., \$47,903.60.

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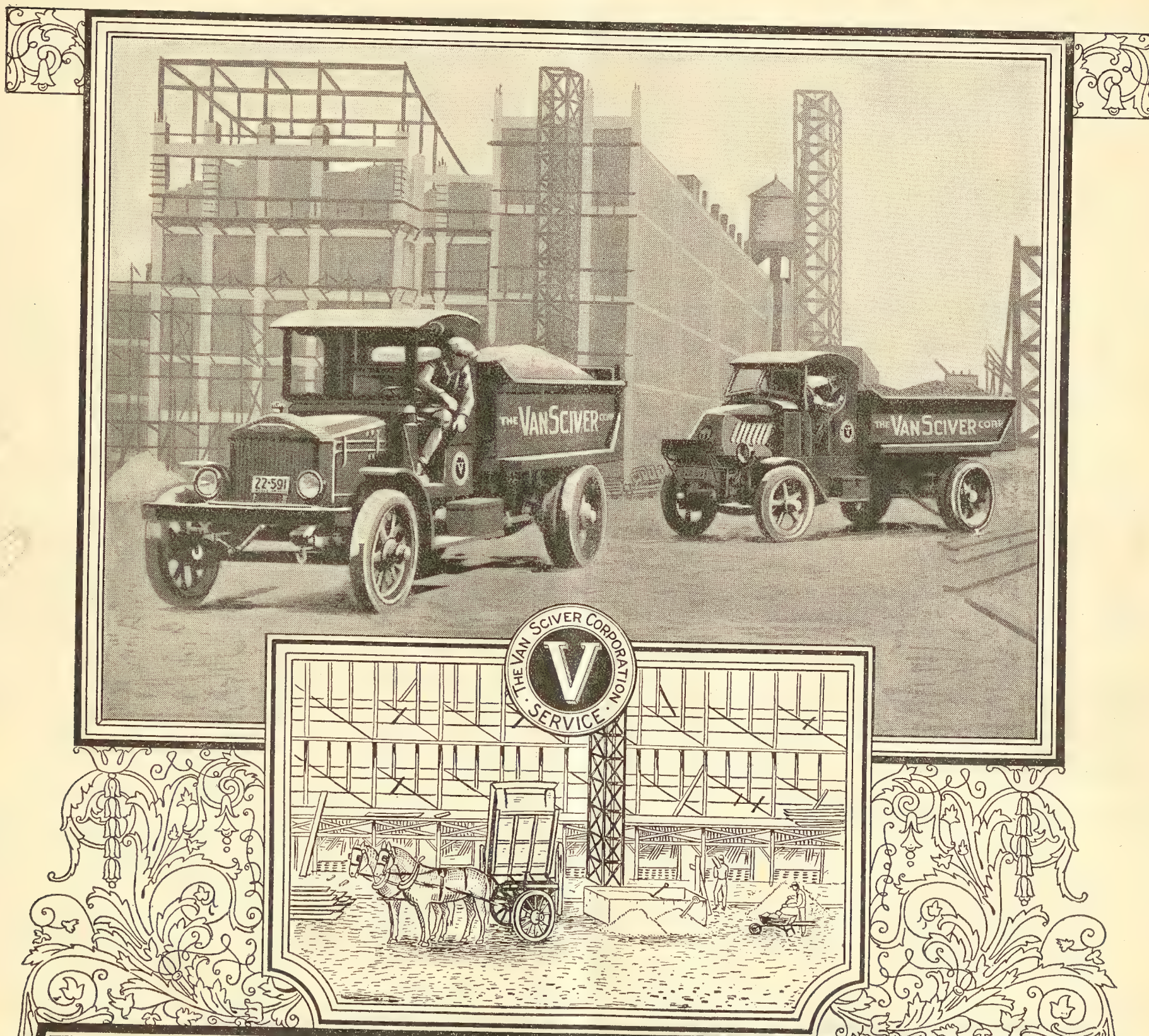
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New Jersey Construction News

Telephone Exchanges, Burlington, N. J.; Moorestown, N. J., and Ocean City, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of New Jersey, W. H. Whitaker, engineer, Newark, N. J. Work contemplated.

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Manufacturing Plant, River road and P. R. R., Camden, N. J., \$1,000,000. Engineers, A. A. Wickland Co., 205 West Wacker Drive, Chicago, Ill. Owners, Rundle Mfg. Co., Milwaukee, Wis. Brick, steel, miscellaneous buildings. Plans in progress.

Store (add. and alts.), Pine street and Broadway, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Hurley Company, Broadway and Pine street, Camden, N. J. Brick. Preliminary plans in progress.

Apartment House, West Side, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. Brick, steel, 3 stories, 34x145 feet, slag roof, pine floors, hot water heat, electric light, tile work. Preliminary plans in progress.

Stores (5), Atlantic City, N. J. Architect, A. F. Amodio, Schwehm Bldg., Atlantic City, N. J. Owners, City of Atlantic City, Atlantic and Tennessee avenues, Atlantic City, N. J. Brick, steel, 1 story, 45x90 feet, slag roof, cement floors, tile work, electric light. Plans in progress.

Stores and Apartment, 221 South Main street, Pleasantville, N. J. Architect, Bertram

Ireland, Guarantee Trust Building, Atlantic City. Owner, Warren Marshall, 25 West Decatur avenue, Pleasantville, N. J. Brick, steel, 2 stories, 50x70 feet, slag roof, pine floors, tile work, hot water heat, electric light. Plans completed. Owner will build.

School, Thorofare, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, West Deptford Township School Board, William F. Armbruster, Jr., president, Thorofare, N. J. Brick, 1 story, 2 rooms, slag roof, maple floors (heating, plumbing and electric separate). Plans completed. Owners ready for bids.

School, Mantua, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, West Deptford Township School Board, W. F. Armbruster, Jr., president, Thorofare, N. J. Brick, 1 story, 4 rooms, slag roof, maple floors (heating, plumbing and electric separate). Plans completed. Owners ready for bids.

School (add.), Verga, N. J., \$40,000. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, West Deptford Township School Board, W. F. Armbruster, Jr., president, Thorofare, N. J. Brick, 1 story, 4 rooms, flat slag roof, maple floors (heating, plumbing and electric separate). Plans completed. Owners ready for bids.

School, Colonial Manor, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, West Deptford Township School Board, W. F. Armbruster, Jr., president, Thorofare, N. J. Brick, 1 story, 6 rooms, slag on concrete roof, maple floors (heating, plumbing and electric separate). Plans completed. Owners ready for bids.

Naval Armory, Perth Amboy, N. J. Architects, Division of Architecture and Construction, Charles J. Leathem, director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, reinforced concrete, 2 stories, 70x133 feet, terra cotta. Owners taking bids due January 20th.

Asbury Park Garage, Sewell avenue and Railroad avenue, Asbury Park, N. J. Chief engineer, W. G. H. Whitaker, 1060 Broad street, Newark, N. J. Owners, New Jersey Bell Telephone Co., 1060 Broad street, Newark, N. J. Brick, reinforced concrete, steel, 1 story, 100x70 feet, excavation, miscellaneous iron work, iron ladders, Medusa waterproofing, cement floors, cement block (George F. Perry & Sons or equal), imitation stone (Benedict Stone Onondago or equal), hollow tile (Raritan Hollow Tile Corp. or equal), composition floors (Marbleoid Co. or equal), metal lath, plastering, slag roof (Barrett or equal), copper skylights, metal windows,

caulking, steel sash (Lupton's, Fenestra or Trusecon), kalamein doors, plumbing (wrought iron pipe), steam heating, radiators (American, U. S., Pierce, Butler & Pierce, National Radiator Co.), electric work. Owners taking bids due January 3rd.

Building (alts. and add.), 19-B to 25 Broadway, Camden, N. J. Architect, E. J. T. Hoffman, 485 Fifth avenue, New York. Owners, Schulte-United, Inc., 485 Fifth avenue, New York City. New front, new roof, general interior alterations, bond, excavating, shoring, concrete and cement work, cement floors, Master Builders' floor hardener, brick work, structural steel, bronze grilles, iron window guards, marble and tile work, metal lath and plastering, caulking, dumb waiter, oak and pine floors, copper skylights, metal ceilings, Barrett specification roof (plumbing, heating, electric and ventilating separate bids). Owners taking bids.

Office Building and Show Room, Northwest Corner Market and Washington streets, Gloucester, N. J. Architect, Louis H. Goettelman, 402 Chestnut street, Brooklawn, N. J. Owners, J. R. Quigley Co., Market street and W. J. & S. S. R. R., Gloucester, N. J. Brick, concrete, structural steel, 2 stories, basement and tower, 81 feet 6 inches x 70 feet, slag roof, maple floors, steam heat, electric light, copper bulks, ornamental iron work. Plans in progress. Architect will be ready for bids January 7th.

Administration Building, Airport, Newark, N. J. Architects, H. G. Aitken, Mechanics' Trust Building, and Division of Architecture and Construction, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, State House, and Quarter Master General's Office, Trenton, N. J. Brick, concrete, wood piling, 2½ stories, 50x100 feet, built-up roof, maple floors, Nailcrete, roof ventilators, metal weather strip, ornamental iron, caulking, steel sash, tile, metal lath. Low bidders: Reisdorff Company, Tuckahoe, N. Y., \$52,900. Plumbing, Ruehl & Hatfield, Newark, N. J., \$3,800. Heating, T. A. Taafre, Newark, N. J., \$3,459. Electric, Christian Hansen, Montclair, N. J., \$2,187.

New Jersey

Contracts Awarded

Fire House, Pleasantville, N. J. Architect, S. Hudson Vaughan, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Pleasantville, West Washington avenue, Pleasantville, N. J. Contract awarded William Lehr, Pleasantville, N. J. Electric to Clark Adams, Pleasantville, N. J. Plumbing

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Residence (int. alts.), Riverton, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, James M. Coale, Riverton, N. J. Removing partitions, carpentry and mill work, plumbing, heating, tile. Contract awarded Charles S. Moses, Edgewater Park, N. J.

Boardwalk, Ocean City, N. J. Architect, W. H. Collison, Ocean City, N. J. Owners, City of Ocean City, City Commissioners, Ocean City, N. J. Reinforced concrete and lumber. Contract awarded Daniel S. Bader, Mediterranean and Virginia avenues, Atlantic City, N. J.

Apartment and Stores (2), 78 and 80 South 27th street, Camden, N. J., \$11,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Norman Construction Co., Camden, N. J. Brick and block, 2 stories, 28x62 feet, and 16x62 feet, slag roof, hot water heat, electric light. Contract awarded Leon H. Harriton, 203 Springfield avenue, Merchantville, N. J.

Engine Room (add.), Foot of Elm street, Camden, N. J., \$8,500. Architect, private plans. Owners, West Jersey Paper Mfg. Co., foot of Elm street, Camden, N. J. Brick, 1 story, 11x23 feet, rubberoid roof, steam heat. Permit issued.

Miscellaneous Construction News

Fraternity House, location withheld. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owner, name withheld. Preliminary plans approved.

Office Building, Astoria avenue at Thirty-

second street, Long Island City, N. Y. Architect, S. A. Minali, 204 East Forty-first street, New York City. Owners, Hoyt Plaza Co., care of architect. Brick, steel, 5 stories and basement, 45x122 feet. Revised plans in progress.

Infirmity Building and Laundry Building, Chillicothe, Ohio. Architects, Construction Division, United States Veterans' Bureau, Arlington Building, Washington, D. C. Owners, United States Government, United States Veterans' Bureau, Arlington Building, Washington, D. C. Brick, cast stone, steel, laundry building, 1 story, 122x44 feet, infirmity building, 2 wings, 152x32 feet, 2 stories wing 41x38 feet, 156x37 feet. Owners taking bids due January 8th, 11 A. M. Reinforced concrete, bond, cement floors, floor hardener (Lapedolith-Matic Builders or equal), cast stone, Indiana limestone, marble work, rubber tile floors, linoleum floors, tile work, integral waterproofing, dampproofing (R. I. W. or equal), membrane waterproofing, iron and steel, iron window guards, steel stairs, kalamine doors, metal partitions, rolled steel sash, elevator doors, slate roofing, tin roofing, roof ventilators, metal lath, plastering, sound deadening, screens, metal weather stripping, plumbing, kitchen equipment, steam heat, electric light.

Post Office, Wilmington, Ohio. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Brick, limestone, steel, 2 stories and basement, 82x60 feet, excavation, floor hardener, concrete floors, hollow tile, safety treads, brass and bronze work, rolled steel windows, vault doors, composition roofing, metal lath, plastering, marble and tile work, metal weather stripping, plumbing, steam heating, electric work. Owners taking bids due January 17th, 3 P. M.

Miscellaneous

Contracts Awarded

Interior Alterations to Methodist Building, Washington, D. C. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Temperance, Prohibition and Public Morals, Washington, D. C. Contract awarded Charles H. Tompkins Co., 1608 K street, N. W., Washington, D. C.

"SELLING POLICIES"

by

PAUL D. CONVERSE

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"Selling Policies" is a new book, dealing with the formulation of sound business policies that relate to the sale of the product. It discusses policies with respect to production and consumer demand. It also describes, in detail, policies covering price, advertising, distribution, credit, and installment merchandising—and kindred topics.

Professor Converse clearly illustrates sound selling policies with 140 practical problems. These policies include all policies regarding sales aside from policies affecting personal salesmen and advertising, although the problems of salesmen and of advertising are touched upon in larger aspects here and there throughout the book. The approach of "Selling Policies" is different from that of any other book of its kind in that it covers a wider scope and deals more with principles.

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volume deals with the former—the formulation of policies—particularly those that relate to the sale of the product. Wise policies and efficient operation are both important. A business may be fairly successful with only one of the two; but to be an outstanding success, under competitive conditions, sound policies and efficient operation are both necessary."

CONTENTS

Policy Formation—Some Examples of Business Policies—Market Research—Some Problems in Market Research—The Relation of Product to Policy—Keeping the Organization

Together Versus Shutting Down—Identifying and Packaging Merchandise—Simplification as a Marketing Policy—Service Policies—Price Policies—Price Uniformity—Price Cutting and Maintenance—Choosing a Method of Distribution—Some Problems in Distributive Methods—Physical Distribution—Advertising Policies—Policies in the Use of Salesmen—Sampling and Specialty Men—Dealer Helps—Allowances for Old Merchandise—Purchasing Policies—Credit Policies—Installment Merchandising.

THE ARCHITECT AND THE BUILD-A-HOME-FIRST MOVEMENT

By PHILO R. BROOKE, *Architect*

I welcome the Build-a-Home-First Movement as a means of bringing the architectural world in closer touch with the great public of potential home owners—especially the owners of moderate priced homes. In reaching this result, two things are necessary, the architect must make more of an effort to understand the public and the public must know about architects and architecture. For the time being, I am confining myself to the second of these two objects.

Of course, there is some kind of architectural service back of every home building job, even though the plans came from a plan book or a syndicate sheet. But this, I wish to show, is a long way from having your job planned for you, your lot, your family, your pocket book—by a professional architect who sees the job through to the finish.

In discussing the positive benefits that an architect can bring to a home owner, I hate to speak wholly in financial terms. I would rather talk about the greater and more lasting satisfaction, to the owner and to the community—the fact that a skillful architect instinctively makes each home express something of the personality of the client.

Most owners respond to a little architectural guidance and manifest good taste when an architect explains principles governing the problem of design. Without this guidance, they tend to flounder.

An architect considers harmony with the surroundings, including the size of the lot. He has an eye for shadow lines. He knows whether a cornice is too heavy or too light, the right curvature of an arch, the right slope of a roof, the acceptable pattern for a moulding—details

which mean little or nothing to the practical builder.

Furthermore, he makes these various elements fit into a practical disposition of spaces, correctly lighted and conveniently arranged. One trouble with many plans taken from plan books is that the different floors fail to fit the pictured exterior. The builder is forced to make changes and the whole job is botched.

The small house is inherently a very engaging field for the architect. The beauty of the small house is in its intimacy—its sense of invitation. One typical mistake of the small house builders in past decades was to ape the large imposing mansion, giving the small home as much grandeur as could be contained in a 40-foot lot.

Now the idea is to take the more flexible period treatment, the Tudor, the Elizabethan, the modern English, the Colonial, and perhaps the Spanish—to simplify them and make them so intimate and livable that they seem to reach out and shake hands with you.

One great gain in small house architecture came when the public accepted a certain freedom and irregularity of line, where formerly everything was stiff and rectangular. We have known for a long time that a free hand drawing was more pleasing than a stiffly ruled diagram, yet we held our builders to the diagram idea.

Now architects have taught the public to accept irregular shingle lines, undulating mortar lines in masonry, introduction of field stone with brick, skintled brick work and a variety of rough brick textures, twisted chimneys and roofs which approximate the traditions of thatch, composites of masonry, timber and stucco.

All this has been a tremendous gain, a fascinating vista of interest and pleasure for the prospective owner. But it is a type of treatment that calls for architectural guidance, since, in the hands of a builder untrained in the traditions of design, such treatments are often terrible.

What is the cost, then, of the benefits which an architect confers on a house that a contractor, with a plan book under his arm rarely is able to achieve?

In answering this question I must assure you that I am talking about competent, experienced architects who specialize in small homes. Many architects avoid this kind of work as unprofitable, which is perfectly all right, except that their manner of avoidance sometimes lends color to the belief that architectural guidance is a costly luxury.

Actually a professional architect will frequently (if not usually) build a house for less money than the untaught building contractor. He will draw the plans and specifications, let all the separate contracts, inspect and supervise the work for a fee of six per cent., where the general contractor aims for a profit of ten per

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cent. In the former case, the lumber, brick, etc., will be charged directly to the owner, instead of the contractor, but the owner pays in the end anyway and a good architect can buy for an owner quite as advantageously as the builder can buy.

If you want another sordid, practical reason for good architecture it is this—the planned, supervised house will sell for more.

No owner can foresee the reasons which may cause him to place his home on the market. When that day comes will he be selling merely lumber, brick, hardware and construction—all somewhat depreciated—or will he be selling beauty, charm, comfort and consistency? *Architecture, after all, is the most enduring asset in any home property.—Building Age.*

THE TABLOID KITCHEN IS COMING CONSTANTLY INTO LARGER DEMAND

The modern housekeeper is "Fordizing" her kitchen. Beauty of appearance she wants of course—but efficiency above all

The kitchen cabinet was the opening wedge in the development of the modern household kitchen. From the experience which came with its adoption and wider use, women became constantly more and more perceptive of the waste of time, labor and space occurring in the old-fashioned kitchen and of the freedom which modern equipment could provide.

Milady's Time is Valuable

Then came the lure of the motor car, the motion picture, the radio. Milady discovered so many things she wanted to do with her time.

And along with this in the cities came the apartment fashion of living with its economic pressure for the saving of space, making that desirable not only from the

standpoint of saving steps and conserving labor, but also as a means to economy of rents.

The result has been a vast increase in demand for what might be called the "kitchenette" or "tabloid" type of kitchen equipment, not only for the housekeeping apartment in which, because of the limitations of space, the kitchen must be compressed into the smallest possible area, but such kitchens are also favored and wanted by housekeepers even where space is not so major a consideration.

Kitchens That Save Time

The reason for this is obvious. Such kitchens save a vast amount of work and time. The housekeeper has all of her tools and material almost literally under her hands and her work is accomplished with the minimum of exertion and the saving of a vast number of steps.

An Insistent Demand

In this insistent demand for efficiency, however, the housekeeper has by no means sacrificed her desire for attractive appearance. On the contrary she has set a higher standard in this respect as well as in others.

She has demanded and is getting the harmony of attractive color and the appearance and the fact of absolute cleanliness.

Bearing all of these conditions in mind it is not difficult to see why the market for kitchen equipment fabricated from sheet steel is growing by leaps and bounds.

One manufacturer of steel kitchen furniture reports an increase of one thousand per cent in his business in the past few years.

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The relative thinness of sheet steel compared with its great strength and durability makes possible a large saving in

the space occupied by kitchen units, and provides maximum storage and working room in the least area.

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Such equipment is made in separate units, and these can be arranged in any desired formation adjustable to almost any space.

A still further, and from a marketing viewpoint, very interesting development which has grown out of the public's revolutionary methods of housekeeping is shown in the demand for simple compact cooking and kitchen furniture for use in rooms which are not primarily devoted to kitchen use.

One example of this type of product which is finding a large market is the so-called portable kitchen.

In a floor space 30 by 18 inches is provided a compact kitchen suitable for use in apartment hotels, rooms rented for light housekeeping, summer cottages, separate emergency and diet kitchens such as are frequently convenient in hospitals and other institutions.

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In addition to storage space for dishes, food and supplies this unit contains a two-burner electric stove which can be operated from a socket connection, and an efficient refrigerator with 25 pounds ice capacity.

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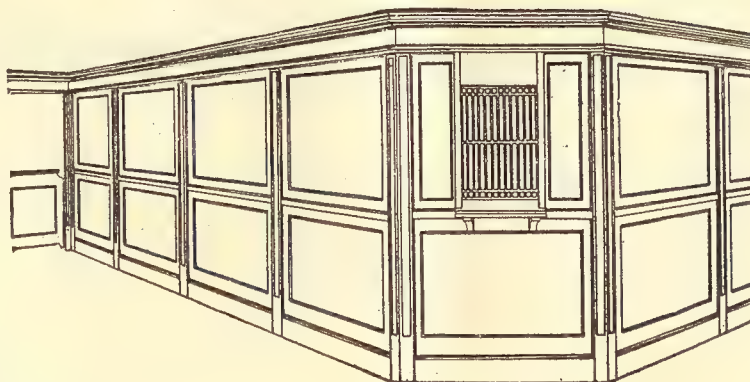
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BUILDERS

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Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
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CAISSONS

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CAULKING

Jules H. Rosenberg, 2313 Walnut St., Phila.

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25th St. and B. & O. R. R., Wilmington, Del.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

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CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

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CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

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Building News Pub Co., 1530 Chestnut St., Phila.

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Anti-Hydro Waterproofing Co.,
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Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.

Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

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Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

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ELECTRICAL REFRIGERATION

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FENCES

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Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

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Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

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Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

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Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.
Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.
Simpson-Anderson Co., Widener Bldg., Phila.
Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co., 2500 Duncan St., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Whartenby, Harry A., 1823 Brandywine St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

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Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
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Italian Marble Mosaic Co., 433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
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Roman Mosaic & Tile Co., 435 Green St., Phila.

MASON BUILDER

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PLASTERERS

Keen Bros., Merchantville, N. J.

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DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

PORCH ENCLOSURES

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Warren-Ehret Co., Luzerne and "E" St., Phila.

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John Nacey Co., 7254 Paschall Ave., Phila.
Warren-Ehret Co., Luzerne and "E" St., Phila.

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Chapman Slate Co., Bethlehem, Pa.

ROOFING TILE

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The Parkway at 24th St., Phila.

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Patent Scaffolding Co., 2835 Bridge St., Phila.

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TERRA COTTA SEWER PIPE

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Belf Bros. Co., 1923 Market St., Phila.
Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.
Hood Tile Co., S. E. Cor. Chestnut & 13th Sts., Phila.
Italian Marble Mosaic Co., 433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

TRANSITS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

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WALLBOARD

Howard Ketcham, 3rd & Girard Ave., Phila.
Pearce Fireproof Co., 1911 N. 2nd St., Phila.
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Audubon Wire Cloth Co., Audubon, N. J.



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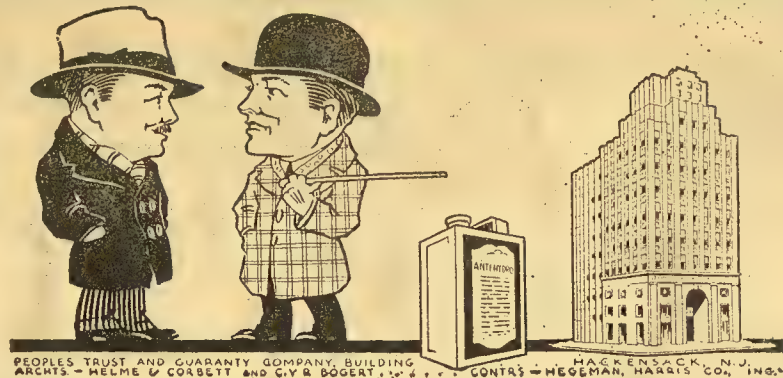
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 2
January 9, 1929

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors
and the Material and Equipment Trades

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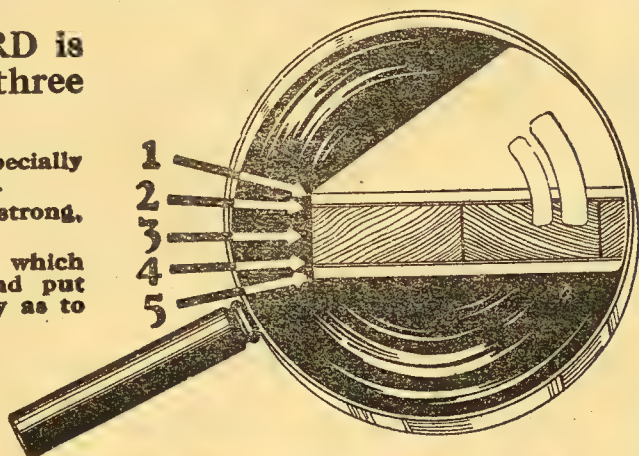
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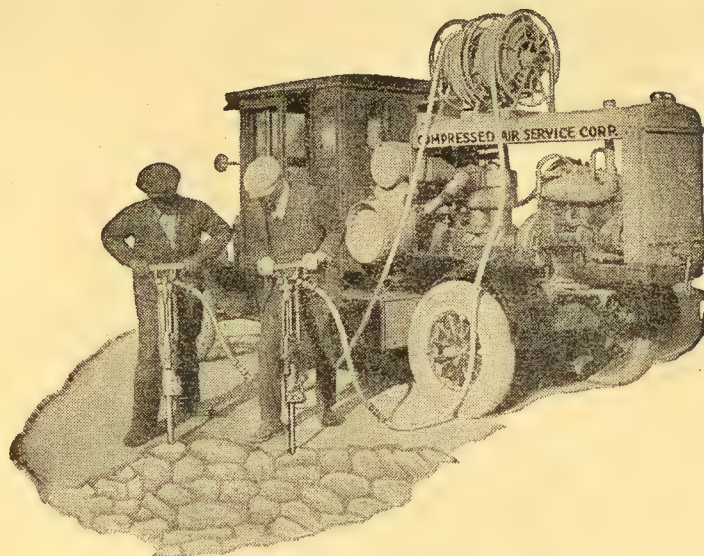
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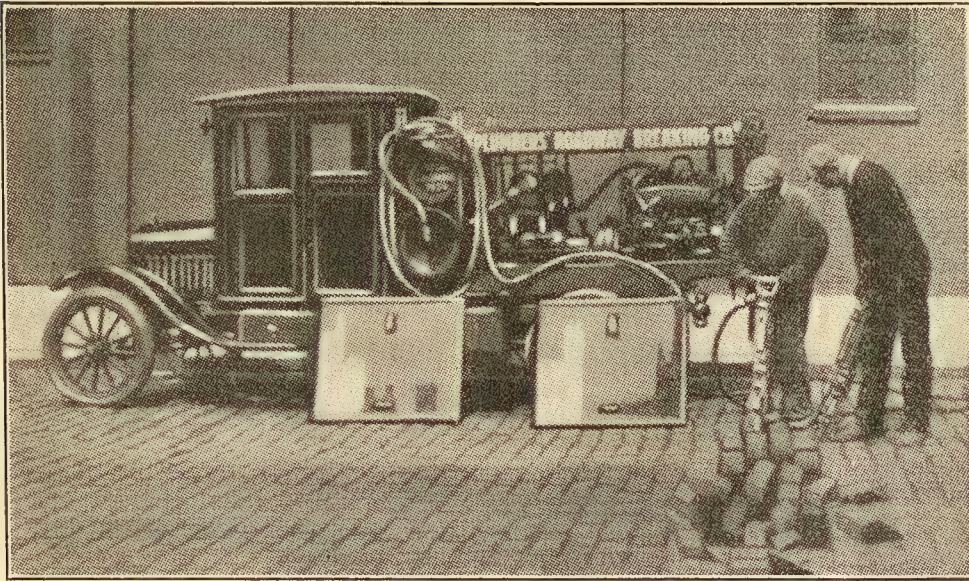
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*Condensed Statement of Condition at the close of business
December 31, 1928*

RESOURCES		LIABILITIES	
Cash on hand and in Banks.....	\$14,550,182.28	Capital Stock	\$6,700,000.00
Loans Upon Collateral.....	64,989,087.40	Surplus	21,000,000.00
Investment Securities Owned.....	45,661,436.58	Undivided Profits	4,572,179.75
Real Estate Owned.....	3,248,018.89	Bills Payable (with Federal Reserve Bank) ..	3,000,000.00
Other Assets	7,362,646.34	Other Liabilities	6,378,231.25
	<u>\$135,811,371.49</u>	Deposits	<u>94,160,960.49</u>
			\$135,811,371.49

Trust Funds, \$710,681,258.12

Corporate Trusts, \$869,651,270.19

WILLIAM P. GEST,
Chairman of the Board

J. CALVIN WALLACE
Treasurer

HENRY G. BRENGLE,
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The Real Estate-Land Title and Trust Company

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Broad and Chestnut Streets	517 Chestnut Street
PHILADELPHIA, PA.	

Capital - - - - -	\$7,500,000
Surplus and Undivided Profits	\$15,750,000
Total Resources - - - - -	\$85,000,000
Individual Trust Funds - -	\$140,900,000

BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 2

PHILADELPHIA
January 9, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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1530 CHESTNUT ST., PHILADELPHIA

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H. A. Lang.....Vice-President

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As The Editor Sees It



THE estimated cost of all buildings, alterations, repairs and miscellaneous work for which permits were issued by the Philadelphia Bureau of Building Inspection in 1928 was \$111,804,680, according to detail reports printed on other pages of this issue of the GUIDE. The total cost of all building in 1928 in Philadelphia is \$5,416,565 under 1927 which was \$117,221,245. The year 1928 was far below 1926 with a total of building work of \$140,267,200 and a great volume below the record year of 1925 when \$170,913,530 was the total buildings.

The most active branch of the industry was dwelling construction with 7752 houses, costing \$33,655,210; this, however, is a decrease of 1356 houses and \$7,070,275, as compared with 1927 figures when 9108 houses costing \$40,725,485 were built. The average cost of houses in 1928 was \$130.00 higher than in 1927. The past year in no way approaches the record year 1925 when 12,954 houses costing \$70,207,465 were started. The decrease in house building has been offset to some extent by the increase in apartment building which increased in value in 1928, \$5,467,850, although in number of apartments there was a drop of 14. In 1927, 95 apartments cost \$12,-

809,600; in 1928, 81 apartments cost \$17,277,450. In no other class of building has such a large increase occurred. The only other noteworthy increase in the entire classification of buildings was in hospitals which increased from 9 costing \$3,748,000 in 1927 to 14 costing \$5,732,600. A slight drop in the number of office buildings is shown, although an increase in total cost—42 costing \$5,434,125 in 1927 compared to 40 costing \$6,870,365 in 1928.

Schools show a decrease of two but a very large drop—over three million in valuation. In 1927, 22 schools cost \$9,314,825; in 1928 20 schools cost \$6,243,790.

Manufactories in 1928 show a decline of two in number and \$1,090,625 in value. 86 cost \$6,742,075 in 1927 and 84 cost \$5,651,450 in 1928.

Garages dropped from 1658 costing \$5,071,885 in 1927 to 1400 costing only \$3,215,090 in 1928. The number of garages is only 258 less than in 1927 but the decrease in value is \$1,856,795.

June was the largest month in 1928 in point of value of work for which permits were granted—\$15,700,450. The greatest number of operations was started in March—2072.

The record by months for 1928:

Month	Permits	Operations	Estimated Cost
Jan. . . .	557	741	\$ 4,482,600
Feb. . . .	615	1,266	9,157,835
March . .	900	2,072	10,657,745
April . . .	900	1,550	9,161,970
May . . .	998	1,737	13,583,485
June . . .	890	2,049	15,700,450
July . . .	823	1,270	13,378,785
Aug. . . .	788	1,553	11,943,540
Sept. . . .	720	1,065	6,255,770
Oct. . . .	897	1,343	5,735,455
Nov. . . .	717	1,214	6,201,220
Dec. . . .	498	767	5,605,825

Estimated cost for months, 1927:

Month	Permits	Operations	Estimated Cost
Jan. . . .	566	718	\$ 3,254,265
Feb. . . .	777	1,515	7,062,930
March . .	1,258	2,448	12,788,130
April . . .	1,043	2,172	11,056,185
May . . .	1,079	1,748	12,506,390
June . . .	1,121	1,953	14,843,590
July . . .	1,031	1,821	11,092,450
Aug. . . .	1,052	2,010	11,768,935
Sept. . . .	955	1,761	12,291,340
Oct. . . .	892	1,373	8,047,420
Nov. . . .	707	1,141	6,411,175
Dec. . . .	523	867	6,098,435

(Continued on Page 28)

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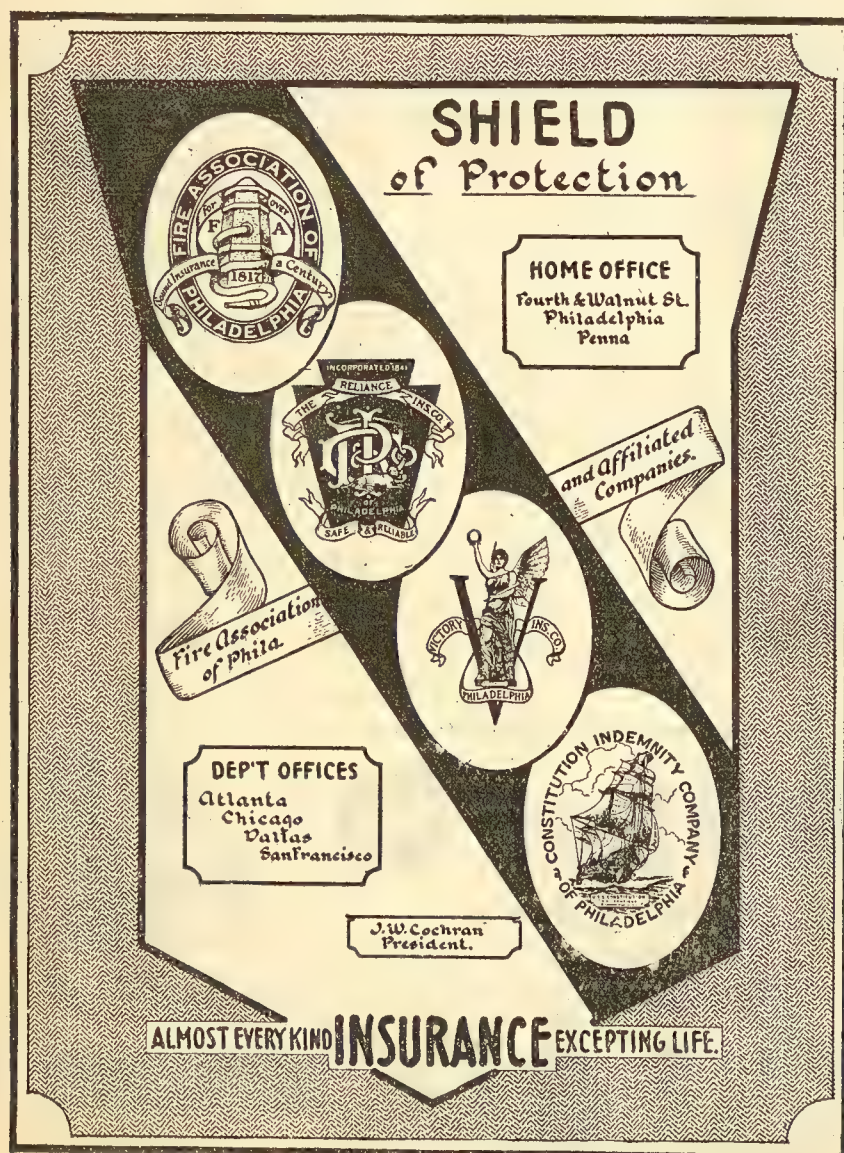
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Administration Building, Twenty-first and Parkway, Philadelphia, \$2,000,000. Architect, Irvin T. Catherine, Board of Education, Nineteenth and Ludlow Sts., Phila. Owners, Board of Education, William Rowen, president; William Dicks, secretary, Nineteenth and Ludlow streets, Philadelphia. Stone, 11 stories, U shape. Plans in progress.

Office and Warehouse, Ninth and Olney avenue, Philadelphia. Owners, W. Atlee Burpee Co., 485 North Fifth street, Philadelphia. Brick, steel. Work contemplated in summer of 1929.

Office Building, Island road and Tinicum road, Philadelphia. Owners, Hy-Power Gasoline Co., Ninety-fourth and Tinicum road, Philadelphia. Brick, 2 stories. Work contemplated.

Freight House (alts. and add.), Front and Willow streets, Philadelphia. Architect, private plans. Owners, Philadelphia & Reading Railroad Co., Twelfth and Market streets, Philadelphia. Work contemplated. Plans in progress.

Store, 1226 Chestnut street, Philadelphia, \$150,000. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, L. Jaffe & Son, Second and Green streets, Philadelphia. Steel, concrete, 5 stories, basement and mezzanine, 19x100 feet, slag roof, limestone, tile and marble work, plate glass, terra cotta, bronze work. Plans about completed. Architects taking bids due Jan. 11 at 3.30 P. M.

Store and Residence, 755 Bainbridge street, Philadelphia. Architect, Benjamin Shulman, 1722 Arch street, Philadelphia. Owner, Jacob Nemitz, 720 Bainbridge street, Philadelphia. Brick, 2 stories and basement, 16x62 feet, slag roof, hardwood floors, plate glass, electric light. Plans completed. Architect ready for bids.

Senior High School, Front and Dun cannon streets, Philadelphia. Architect, Irvin T. Catherine, 19th and Ludlow Sts., Phila. Owners, Board of Education, Wm. Rowen, president; Wm. Dicks, secretary, Southwest Corner Nineteenth and Ludlow streets, Philadelphia. Brick, steel, 4 stories and basement, capacity 4,000. Will be ready for bidders about March 18th, due April 2nd.

Garage (add.), 3429 North Tenth street, Philadelphia. Architect, Edward Schotppe, 1602 Spruce street, Philadelphia. Owner, name withheld. Architect taking bids due January 15th.

Factory, South Philadelphia. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories and basement, 150,000 square feet, slag roof, plank floors, steam heat, electric light, freight elevators, sprinkler system. Plans in progress.

Retail Store, 1626 Chestnut street, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, S. F. Whitman & Son, 1316 Chestnut street, Philadelphia. 4 stories, basement and mezzanine, 20x150 feet. Ready for bids in two weeks.

Apartment House, 5629-33 Woodland avenue, Philadelphia. Plans by Robert Frank, 1213 Frankford avenue, Philadelphia. Owners, Penn Jersey Construction Co., 1213 Frankford avenue, Philadelphia. Brick, steel, 4 stories, 60x110 feet, slag roof, electric elevators, mill work, door beds, stucco plastering, hot water heat, oil burners, electric light, incinerators. Owners ready for sub-bids due at once.

Arcade Store and Hotel, 129-31 South Eleventh street, Philadelphia. Architects, Coshland & Beard, Chester, Pa. Owners, B. Cohen & Son, 109 South Eleventh street, Philadelphia. Brick, steel, fireproof, 12 stories, 35x100 feet, slag roof, hardwood floors, 6 stores, restaurant, 99 rooms and baths, macite partitions, vapor heat, elevators, kitchen units, laundry equipment, incinerator, plate glass, Murphy door beds, metal bulks, kalamein doors, rolled steel sash, tile and marble work, electric light. Ready for bids in two weeks.

Office Building, Seventeenth and Sansom streets, Philadelphia. Architect, Arthur W. Hall, Fifteenth and Locust streets, Philadelphia. Owner, Samuel T. Hall, Southwest Corner Fifteenth and Locust streets, Philadelphia. Brick, reinforced concrete, steel, 13 stories and basement, 80x36 feet, elevators (2), sidewalk elevator (1), steam heat, radiators (American or equal), demolition, granite curbs and steps, bond, gypsum block partitions, limestone, metal lath, plastering, marble and tile work, tin-clad doors, kala-

meir doors, ornamental iron work, electric work, cement floors, built-up roof, plumbing, wrought iron pipe (Natural tube or equal), brass pipe (Baltimore Tube Works or equal), asbestos pipe covering. Architect taking bids due January 11th at noon.

Schools (3), Front and Spencer streets; Ditman and Aramingo streets; Robbins and Battersby streets, Philadelphia. Architect, Irvin T. Catherine, (Board of Education), Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, William Rowen, president; William Dicks, secretary, Nineteenth and Ludlow streets, Philadelphia. Low bidders—Front and Spencer streets, Philadelphia: Weiss Construction Co., 1428 Master street, Philadelphia, \$388,500; Michael Melody, 1322 Race street, Philadelphia, \$404,597; plumbing, Fred Wachenhut, 2416 Frankford avenue, \$19,635; heating, McClintock & Son, 1937 Ridge avenue, Philadelphia, \$44,950; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, \$1,947; electric, Harry S. Mitchell, 1337 McFerran street, Philadelphia, \$15,850. Low bidders—Ditman and Aramingo streets: Weiss Construction Co., 1428 Master street, Philadelphia, \$391,000; P. H. Kelly, 1713 Sansom street, Philadelphia, \$408,000; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$19,266; heating, McClintock & Son, 1937 Ridge avenue, \$44,950; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, \$1,947; electric, Harry S. Mitchell, 1337 McFerran street, Philadelphia, \$15,850. Low bidders—Robbins avenue and Battersby street: Weiss Construction Co., 1428 Master street, Philadelphia, \$426,000; McCloskey Co., 1620 Thompson street, Philadelphia, \$446,763; plumbing, Fred Wachenhut, 2416 Frankford avenue, \$20,705; heating, McClintock & Son, 1937 Ridge avenue, \$44,950; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, \$1,947; electric, Harry S. Mitchell, 1337 McFerran street, \$15,850. Low bidders—Specification 339, Germantown High School: W. W. Anstine, Oxford and Frankford avenue, Philadelphia, \$3,030; Mitchell Brothers, 2125 Race street, Philadelphia, \$3,173. Low bidder—Specification 340, Kensington High School: Louis P. Riedenauer, 2917 West Susquehanna

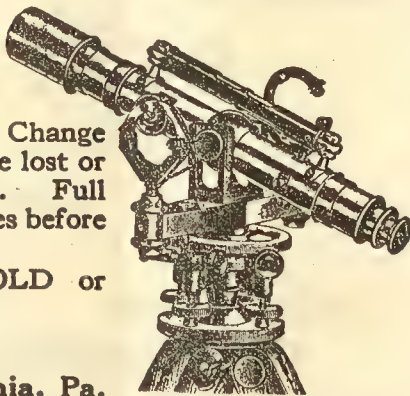
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avenue, \$11,173. Low bidder—Specification 344: Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$2,386.

Test Borings, site of Convention Hall, Vintage avenue and Thirty-fourth street, Philadelphia. Owners, City of Philadelphia, care of H. A. Mackey, Mayor, City Hall. Owners taking bids due January 17th at noon. Specifications may be obtained from architect of building, P. H. Johnson, Widener Building, Philadelphia.

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Tank Room (alts.), Southwest Corner Fifty-fourth and Paschall avenue, Philadelphia, \$2,500. Architects, William F. Koelle Co., 1623 Race street, Philadelphia. Owners, Crescent Ice Co., on premises. General interior alterations. Permit issued.

Residences (5), 3416-24 Midvale avenue, Philadelphia, \$20,000. Architect, private plans. Owner, M. J. McCrudden, Thirty-fourth and Midvale avenue, Philadelphia. Brick, 2 stories, 16x37 feet, hot water heat, electric work, slag roof, oak and yellow pine floors. Permit issued.

Building, 1231-33 Market street, Philadelphia. Architect, Sol. Kaplan, 10 South 18th street, Philadelphia. Owners, Lionel Friedman, Inc., 15th and Locust streets, Philadelphia. Brick, steel, 2 stories and basement, 38x180 feet. Architect taking bids due Jan. 11th.

Office (add.), Northeast Corner Twenty-first

and Lehigh avenue, Philadelphia, \$10,000. Architect, private plans. Owners, American Baseball Club of America, on premises. Brick, 2 stories, 12x12 feet. Permit issued.

Store Building, 2617-21 Germantown avenue, Philadelphia. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Lesses, W. T. Grant Co., 455 7th avenue, New York. Brick, cast stone, 2 stories and basement. steam heat, electric light, metal sash, copper bulks, plate glass, built-up roof, maple floors. Plans about completed. Architect ready for bids.

Residences (22), East side Whitaker street, South Courtland street, Philadelphia, \$79,500. Architect, private plans. Owners, Singer & Schmidheiser, 37 South Fifth-ninth street, Philadelphia. Brick, 2 stories, 14 feet 9 inches x 26 feet, hot water heat, electric work, slag roof, oak and yellow pine floors. Permit issued.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office (alts.), 21 South Twelfth street, Philadelphia, \$20,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Board of City Trusts, Lafayette Building, Philadelphia. General interior alterations. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Balcony (removal), Stephen Girard Building, Twelfth and Girard streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Estate of Stephen Girard, on premises. Demolition, cement work, carpentry and mill work. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Removal of Balconies, Southwest Corner Third and Chestnut streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Estate of Stephen Girard, Twelfth and Girard streets. Demolition, cement work, carpentry and mill work. Contract awarded F. W. Van Loon, Perry Building, Philadelphia.

Apartment House, Wissahickon avenue and School lane, Philadelphia, \$60,000. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owner, Louis Lifter, Sixty-third and Walnut streets, Philadelphia. Brick, 4 stories, 224x213 feet, slag roof, hardwood floors, electric light, tile and marble work. Contract

awarded Samuel Hankins, 5204 Gainor road, Philadelphia, and on premises of job, Victor 9533.

Residences (3), South side Theodore, East Berbro street, Philadelphia, \$10,500. Architect, private plans. Owner, Mrs. Rebecca Kotler, 1412 Real Estate Trust Building. Brick, 2 stories, 16x32 feet, hot water heat, electric work, slag roof, oak and yellow pine floors. Contract awarded H. Levin, 1412 Real Estate Trust Building, Philadelphia.

Mill (alt.), Southwest Corner Adams avenue and Powder Mill road, Philadelphia, \$2,800. Architect, private plans. Owners, American Pile Fabric Co., on premises. General interior alterations. Contract awarded H. A. Hopple, Heed Building, Philadelphia.

Residence (add.), 6929 Greenhill road, Philadelphia, \$10,000. Architect, private plans. Owner, H. C. Mayer, Jr., on premises. Stone, 2 stories, 21x34 feet, hot water heat, electric work, oak and yellow pine floors, slate roof, tile work. Contract awarded H. E. Baton, Inc., 1713 Sansom street, Philadelphia.

Residence (add.), 4840 Frankford avenue, Philadelphia, \$5,000. Architect, private plans. Owner, George Hanna, 1401 Oxford avenue, Philadelphia. Brick, 3 stories, 20x7 feet, oak and yellow pine floors, slag roof. Contract

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awarded J. D. Fotheringham, 1000 Arrott street, Philadelphia.

Manufacturing Building, Northeast Corner Allegheny avenue and Collins street, Philadelphia, \$3,000. Architect, private plans. Owners, Masland Durable Co., on premises. Hollow tile, 22 feet 4 inches x 44 feet 3 inches, cement floor, slag roof. Contract awarded William Steele & Sons Co., 124 North Fifteenth street.

Store (add.), Northeast Corner Germantown and Cheltenham avenues, Philadelphia, \$2,500. Architect, private plans. Owner, E. A. Schmidt, 1221 Arch street, Philadelphia. General interior alterations. Contract awarded Chan Sil Construction Co., 5821 Stockton road, Phila.

Commercial Building, Broad, Callowhill, 13th and Noble streets, Philadelphia. Architect, Clark Dillenberg, Reading Co., 12th and Market streets, Philadelphia. Owners, Reading Co., A. T. Dice, 12th and Market streets, Philadelphia. Lesses, Terminal Warehouse Co., T. D. Sullivan, Delaware and Fairmount avenues. Brick, reinforced concrete, 12 stories, 6 stories and basement, 500x225 feet, slag roof, cement floors, steam heat, electric light, metal lath, bond, casement windows. Contract awarded Wm. Steele & Son, 15th and Cherry streets, Philadelphia.

Manufacturing Building, Corner Richmond and Kennedy streets, \$20,000. Owners, Charles Lennig Co., on premises. Brick, 1 story, 70x129 feet, 2nd story, 33x33 feet, carpentry and millwork. Contract awarded Rumpf & Kohlmeier, 3543 Germantown avenue, Philadelphia.

Pennsylvania Construction News

Office Building, Power House and Cafeteria, Section G, Baldwin Track, near Darby Creek, Edystone, Pa., \$8,000,000. Engineer David Lofis, civil engineer, Wrigley Bldg., Chicago, Ill. Owners, American Steel Foundry Co., Wrigley Bldg., Chicago, Ill. Brick, steel, concrete, 8 stories, 600x1100 feet. Plans in progress.

Club House (restoration), Golf House road, Haverford Township, Montgomery County, Pa. Architects, Thomas Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Merion Golf Club, on premises. Plans in progress.

Telephone Exchange, Seventh and Ann streets, Stroudsburg, Pa. Architect, John T. Windrim, 1201 Chestnut street, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, F. L. Briggs, engineer, 210 Pine street, Harrisburg, Pa. Brick. Plans in progress.

Store House and Miscellaneous Buildings, Reading, Pa., \$1,000,000. Owners, Philadelphia & Reading Railroad Co., Twelfth and Market streets, Philadelphia. Work contemplated. Plans in progress.

Station, Franklin street, Reading, Pa. Owners, Philadelphia & Reading Railroad Co., Twelfth and Market streets, Philadelphia. Work contemplated. Plans in progress.

Church Building, Clark Summit, Pa., \$15,000. Architects, Office of George C. Baum, Early & Emmert, 1511 Arch street, Philadelphia. Owners, Trinity Evangelical Church,

Clark Summit, Pa. Concrete block, stucco, 1 story and basement, slate roof, maple and rubber stone, tile floors, cement work, plumbing, steam heat, electric light. Plans in progress.

Consolidated School, Kulpville, Pa., \$30,000. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Towamencin Township School Board, Leidy S. Kriebel, secretary, Lansdale, Pa. Brick, hollow tile, 4 rooms, composition floors, steel sash, built-up roof. Plans in progress.

Disposal Plant, Pottstown, Pa. Owners, Borough of Pottstown, Stanley Swinehart, chairman, Pottstown, Pa. Work contemplated.

Residence, Seventh avenue and Spruce street, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, John F. Bisping, Fourth avenue, Royersford, Pa. Brick, stone, 2 stories, 26x35 feet, asphalt shingle roof, pine and oak floors, steam heat, electric and gas lighting, tile, wood sash, Morgan doors. Plans in progress. Owner will take bids.

Residence (alts.), Main street, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Harry K. Frees, Main street, Royersford, Pa. Frame, 2½ stories, 28x42 feet, tin roof, pine floors, steam heat, electric light. Plans in progress. Owner will take bids.

Residence, near Ambler, Pa. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owner, H. Frazier, care of architect. Stone, 2½ stories. Plans completed. Architect ready for bids.

Church and Rectory, Darby, Pa. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, Church of the Blessed Virgin Mary, Rev. W. A. Fitzgerald, Darby, Pa. Ready for bids in a few days.

Residences (52), Spring avenue and Ashburne road, Ashburne, Pa., \$25,000 to \$30,000. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Robert S. Feeney, J. Dallas, Elkins Park, Pa. Stone, cinder block, stucco, 2½ stories, hot water and vapor heat, slate or shingle roof, hardwood floors, electric light, tile work. Work to start in spring, 1929.

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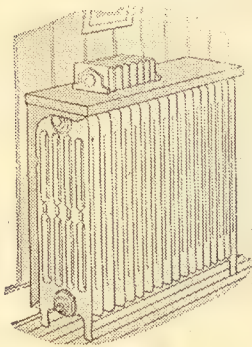
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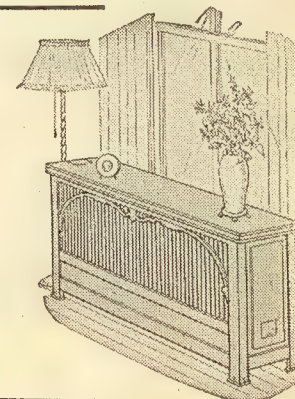
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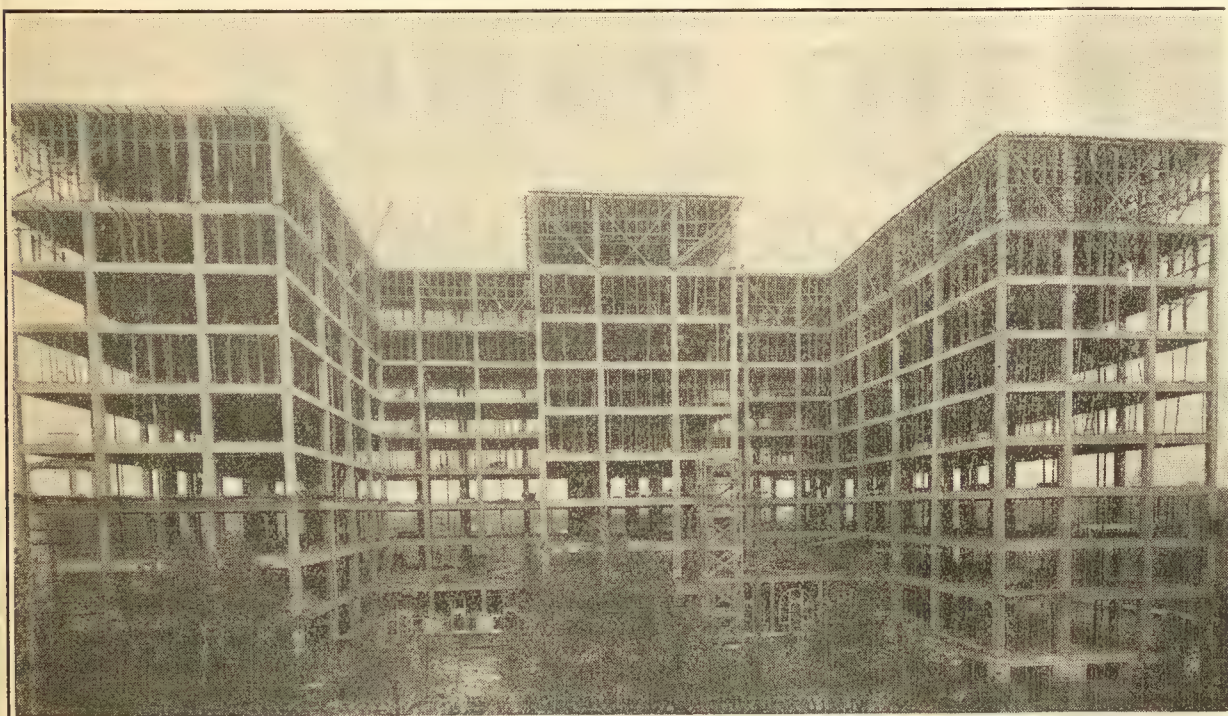
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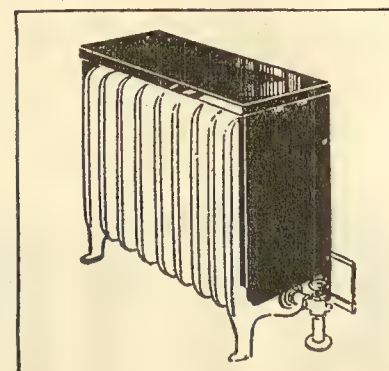
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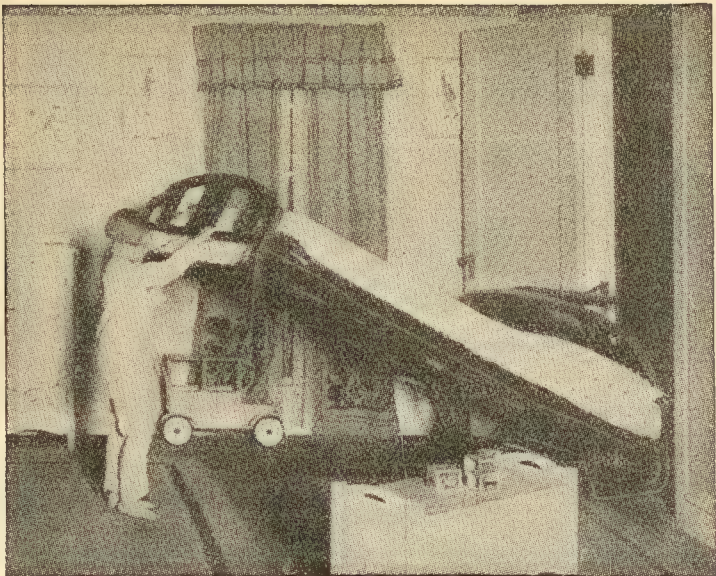
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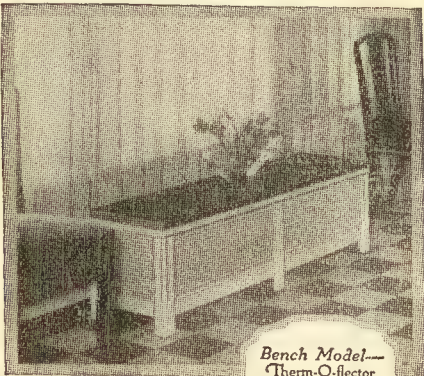
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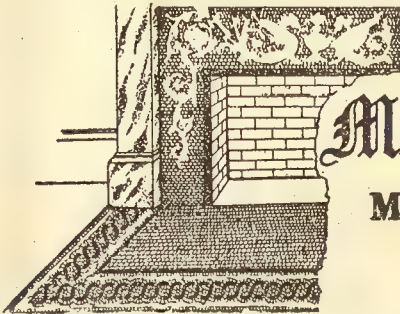
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Store Building, 701-07 Penn street, Reading, Pa., \$75,000. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Imber Brothers, 949 Penn street, Reading, Pa. Steel, concrete, 3 stories, 50x200 feet, hollow tile, waterproofing and dampproofing, hollow metal sash. Architect ready for bids.

Residence and Garage, Northwest Corner West and Paine streets, Doylestown, Pa. Architect, A. Oscar Martin, 20 Main street, Doylestown, Pa. Owner, Fred F. Martin, 20 Main street, Doylestown, Pa. Skintle brick, 2 stories, 38x28 feet, garage 12x21 feet, slate roof, hot water heat, hardwood and linoleum floors, electric light, tile work, cinder block

foundations, metal lath, copper flashings. Owner will take sub-bids in 2 weeks.

Residence, Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, H. J. Rosenberger, Doylestown, Pa. Stone, 2½ stories, 26x40 feet, 1 story, 20x20 feet, hot water heat, electric light, tile work, metal lath, slate roof, hardwood floors, cement work. Owner will build and is taking sub-bids.

Residences (10), Elkins Park, Pa. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, A. Adelson, Elkins Park, Pa. Stone, cinder block, stucco, 2½ stories, 27x34 feet, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Residence, Lititz, Pa. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owner, E. J. Vogler, Lititz, Pa. Stone, concrete block, 2 stories, 44x45 feet, shingle roof, hardwood and yellow pine floors, hot water heat, tile work. Architect taking bids due March 1st.

Residence, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, Paul Myers, Woolworth Building, Lancaster, Pa. Stone, 2 stories, 30x30 feet, wood shingle roof, hardwood floors, hot water heat, electric light, tile work, casement windows. Architect taking bids due January 10th.

Community Mausoleum, Harrisburg, Pa. Architect, D. M. Rothenberger, 440 A Court street, Reading, Pa. Owners, Central Mausoleum Co., care of J. C. Lutz, Harrisburg, Pa. Granite and steel, 1 story, 123x55 feet, excavation, granite, concrete work, reinforced steel, ventilating, crypts, metal grates, grilles, Louvres, stone crypts (McDermott Blue Sandstone), sheet lead, marble work, tile roof (Ludowici Celadon), sheet metal work, bronze work, doors, grilles, windows, ornamental and cast bronze, steel sash, glass, plastering, electric work. Architect taking bids due January 12th.

Y. W. C. A., Norristown, Pa. Architect, H. Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owners, Y. W. C. A., Norristown, Pa. Owners taking bids due January 15th, 10 A. M.

County Jail, Reading, Pa., \$100,000. Architect, A. Hopkins, 417 Lexington avenue, New York City. Engineer, L. F. Christman, Ganster Building, Reading, Pa. Owners, Commissioners of Berks County, F. K. Savage, president; Ralph F. Matthews, chief clerk, Court House, Reading, Pa. Work contemplated.

Bridges, Reading, Pa.; Wyomissing, Pa.; Tuckerton, Pa.; East Greenville, Pa. Architect, private plans. Owners, Philadelphia & Reading Railroad Co., Twelfth and Market streets, Philadelphia. Plans in progress.

Store and Offices, Southeast corner Ludlow and Long Lane, Upper Darby, Pa. Architect, H. B. Wildon, 1817 Callowhill St., Phila. Owners, Kershaw & Raney, Stonehurst, Pa. Brick, steel, 2 stories and basement, 74x30 feet, slag roof, oak and pine floors, marble work, ornamental iron work. Architect taking bids.

Apartment House, Lansdowne, Pa. Architect, Charles North, 1711 Sansom street, Philadelphia.

delphia. Owner, Edward H. Royer, 1420 Chestnut street, Philadelphia. Brick, limestone, steel, 4 stories and basement, 52x145 feet, slag roof, oak and pine floors, steam heat, electric light, tile work. Owner taking bids due Jan. 16th.

Store and Office (alts.), Main street, Norristown, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owners, Schnee & Schnee, 805 Security Building, Bridgeport, Pa. Brick, 4 stories, 35x70 feet, slag roof, vapor heat, electric light, metal ceilings, copper bulks, plate glass. Revised plans in progress. Architect will be ready for general bids in 10 days.

Modernesque Exhibit Residence, Lot No. 175, City Line, Merion, Pa., \$35,000. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, McWilliams & Maloney, Overbrook Hills in Merion, Pa. Brick, stucco, 2½ stories, 40x72 feet, tile roof, hardwood floors, central heat, electric light, tile work, ornamental plaster, wrought iron work. Owners taking sub-bids.

Residence Operation, Rittenhouse Square, Philadelphia. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, care of J. R. Davis, Southwest corner 69th and Market streets, Upper Darby, Pa. Brick, stucco, 2 stories, 22x35 feet, wood shingle roof, hardwood floors, hot water heat, electric light, tile work, garage attached. Plans about completed. Owner will be ready for sub-bids Jan. 14th.

Church (fire repairs), Shamokin, Pa. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, First United Brethren Church, Rev. H. J. Behney, 108 E. Sunbury street, Shamokin, Pa. Bids will be taken in about two weeks.

Pennsylvania Contracts Awarded

Garage, Wayne, Pa. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Brookmead Dairies, Wayne, Pa. Brick, steel, 1 story, 56x60 feet, slag roof, cement floors, plumbing, ornamental iron work. Contract awarded J. D. Lengel, Wayne, Pa.

Residence, Yardley road, near Yardley, Pa. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, George Arnett, care of architect. Stone, brick, timber, 2½ stories, 56x37 feet, slate roof, hardwood floors, steam heat, electric light, tile work, casement windows. Contract awarded William Akers, 247 Hollywood avenue, Trenton, N. J.

Hospital and Home (add.), Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bucks County Commissioners, E. H. Harvey, Doylestown, Pa. Wire glass, partitions, fire escapes, alterations to conform to State requirements of fire laws. Contract awarded D. D. Nyce, Doylestown, Pa.

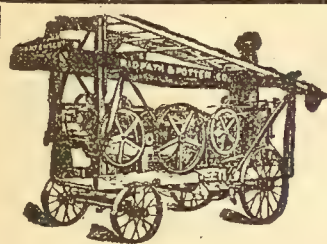
Factory Building, Reading, Pa., \$400,000. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, Oakbrook Hosiery Mills, Inc., I. Eberly, Oakbrook, Reading, Pa. Brick, steel, 1 story, 200x150 feet. Contract awarded Fink Construction Co., Fifth and Walnut streets, Reading, Pa.

Barn (alts. and add.), Villa Nova, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, William B. Read, Villa Nova, Pa. Contract awarded Oscar Freas, Conshohocken, Pa.

Church, Aronimink, Delaware County, Pa.

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Architect, Louis Ward Easby, 1420 Chestnut street, Philadelphia. Owners, Church of the Holy Comforter, Episcopal, Rev. C. W. Schiffer, Burmont avenue, Aronimink, Pa. Basement only, 1 story, slag roof, 81x66 feet, stone, cast stone, steel, steam heat, electric light, metal lath, bond, ornamental iron work, casement windows, excavation, metal toilet partitions, slate roof, maple and cement floors, plumbing. Contract awarded James Kershaw, 527 North Forty-first street, Philadelphia.

New Jersey Construction News

Bungalow, Cranbury, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Franklin Brasch, Cranbury, N. J. Brick, 1½ stories, 32x46 feet, shingle roof, hardwood floors, tile work, electric light. Plans in progress.

Store (add.), North Broad street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Home Furniture Co., 137 North Broad street, Trenton, N. J. Brick, terra cotta, steel, 2 stories, 35x110 feet, slag roof, maple floors, elevators, roof ventilators, heating extension, electric light, tile, marble, steel sash. Plans in progress. Architect will be ready for bids in ten days.

Administration Building, Dormitory, Physical Training Building, Athletic and Polo Field, etc., Wenonah, N. J. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owners, Wenonah Military Academy, Wenonah, N. J. Administration, brick, 2 stories, 204x60 feet, auditorium 52x100 feet, office, library, class rooms, laboratory, etc. Dormitory, 2 stories and basement, E shape, 200 capacity. Physical gymnasium, swimming pool, lockers, etc. Will be ready for bidders January 15th.

Naval Armory, Perth Amboy, N. J. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, commissioner, State House, Trenton, N. J. Brick, steel, reinforced concrete, 2 stories, 70x133 feet, terra cotta. Owners taking bids due January 30th. Note date.

School, Collingswood, N. J. Architect, F. Herbert Radey, 428 Market street, Camden, N. J. Owners, School District of Collingswood, H. Milton Restruck, 404 Cedar avenue, Collingswood, N. J. Brick, steel, 2 stories and basement, 41x67 feet, maple and cement floors, ornamental iron work. Owners taking bids due January 10th.

Bank Building (alts.), Broadway and Sycamore streets, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, First National State Bank of Camden, Camden, N. J. Architects taking bids due January 14th.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Route 29, Sec. 5, Ringoes to Mt. Airy, in Hunterdon County. Earth excavation, rock excavation, reinforced concrete pavement, (1) small span bridge. Certified check, 10 per cent. Deposit of \$10. Owners taking bids due January 21st at noon.

F. Ferdinand Durang, Architect, announces the removal of his Philadelphia office to 329 South Thirteenth street, Pennypacker 7026.

Ralph E. White, Architect, has opened new offices at 1518 Walnut street, Philadelphia.

New Jersey Contracts Awarded

Convention Hall and Amusement Pier, Avalon, N. J., \$49,000. Architect, W. L. Gibbs, Jr., Ocean City, N. J. Owners, Borough of Avalon, Avalon, N. J. Concrete block and stucco, 100x136 feet, seating capacity 750. Contract awarded Joseph G. Champion, Tenth and West streets, Ocean City, N. J.

New Junior High School, Thirty-first and Federal streets, Camden, N. J. Architects, Davis, Dunlap and Barney, 1805 Walnut street, Philadelphia. Owners, Board of Education, B. L. Seabrook, Camden, N. J. Electric work contract awarded C. M. Parkhurst Co., Clementon, N. J.

Building (add.), 812 South Fifth street, Camden, N. J., \$3,600. Owner, Gabriel Navarra, on premises. Brick, 2 stories, 16x27 feet, slag roof, hot water heat. Contract awarded John C. Gibson, 527 Cooper street, Camden, N. J.

Miscellaneous Construction News

Swimming Pool and Recreation Center, One Hundred and Thirty-fourth street and Broadway, N. Y. Architect, Edward Schoeppe, 1602 Spruce street, Philadelphia. Owner, name withheld. Reinforced concrete pool, 65x175 feet, locker house, capacity 3,000, sand beach, filtration plant, plumbing, sprinklers, recreation building, size of lot 100x375 feet, refreshment building. Plans in progress. Architect will take sub-bids on foundations and excavation in 10 days. Remainder of work in 3 weeks.

Residence and Garage, Louisville, Ky. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, Mr. Shackelford Miller, Jr., Louisville, Ky. Brick, white washed, 2 stories, 85x35 feet, 20x22 feet, black Bangor slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Plumbing and Sprinklers in Building, Dayton, Oio. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Leland Electric Co., Dayton, Ohio. Architects taking bids due January 15th.

Apartment, Tenth and Jefferson streets, Wilmington, Del. Architect, Wallace E. Hance, Equitable Building, Wilmington, Del. Owner, name withheld. Brick, cast stone, ar-

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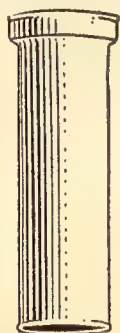
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chitectural terra cotta, steel, 10 stories, 40x119 feet, slag roof, oak and pine floors, steam heat, electric light, metal lath, tile, marble, steel sash, bond, ornamental iron, elevators, waterproofing and dampproofing, fire doors. Architect taking bids due January 18th.

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Sales and Service Building (alts. and add.), Northwest Corner Eleventh and Tatnall streets, Wilmington, Del. Architect, Samuel Abramson, 770 South Schuylkill avenue, Philadelphia. Owners, Keil Motor Co., on premises. Reinforced concrete and steel, 3 stories add., demolition, brick work, cast stone, steel and iron work, slag roofing, painting and glazing, plastering, marble work, metal lath. Architect taking bids due January 14th.

Residence, Wawasett Park, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, Dr. Arthur L. Fox, 426 South Sycamore street, Wilmington, Del. Brick, stone, 2½ stories, 48x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due January 12th.

Residences (6), West Thirty-fourth street, Wilmington, Del., \$36,000. Architect, private plans. Owners, W. S. & F. J. Boyce, 617 West Twenty-sixth street, Wilmington, Del. Brick, 2 stories, 21x31 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Miscellaneous

Contracts Awarded

Bank, Office and Stores, Ninth and Shipley streets, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owners, Farmers' Bank, Third and Market streets, Wilmington, Del. Steel, brick, limestone, 1 and 2 stories, 35x60 feet, 44x100 feet, slag roof, concrete, linoleum, terrazzo or marble floors, hollow tile, metal window guards, metal lath, tile, marble, steel sash, bronze, wrought iron pipe (plumbing, heating, electric separate). Contract awarded John E. Healy & Son, 707 Tatnall street, Wilmington, Del.

Residence, Wawasett Park, Wilmington, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, Edward B. Beale, 2001 Harrison street, Wilmington, Del. Brick, 2½ stories, 35x40 feet, slate roof, hardwood floors, hot water heat, electric light. Contract awarded C. A. Eckman, 821 Orange street, Wilmington, Del.

School Building, Leipsie, Del. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State Board of Public Education, Dover, Del. Engineers, Delaware School Foundation, DuPont Building, Wilmington. Contract awarded Hastings & Parsons, Millsboro, Del., \$14,704.46.

De La Salle College, Intersection of Queen's Chapel road, between Maryland and District of Columbia Lines. Architects, Milburn, Heister & Co., Hill Building, Washington, D. C. Owners, Christian Brothers, Calvert Hall, Bal-

timore, Md. Reinforced concrete, brick, granite, steel, 3 stories and basement, gypsum built-up roof, concrete and oak floors, plumbing, waterproofing, architectural terra cotta, electric light, metal lath, tile and marble work, terrazzo work, ornamental iron work, brass pipe, excavation, cement floors, linoleum, elevators. Contract awarded Henry L. Maas, 1119 Ensor street, Baltimore, Md.

(Continued from Page 19)

The following table shows the total for each year back to and including 1909:

Year	Operations	Estimated Cost
1909	17,294	\$ 42,881,370
1910	16,383	37,866,565
1911	16,215	40,030,985
1912	14,907	37,173,635
1913	14,813	38,763,850
1914	15,709	35,419,605
1915	17,712	39,444,125
1916	15,613	49,896,570
1917	8,977	34,016,408
1918	5,950	15,452,670
1919	14,509	65,088,750
1920	12,512	55,305,400
1921	14,654	42,790,780
1922	22,588	114,881,040
1923	21,546	122,650,935
1924	24,234	141,737,460
1925	25,307	170,913,530
1926	19,780	140,267,200
1927	19,527	117,221,245
1928	16,626	111,804,680

The number of garages declined in 1928 as in 1927 and 1926 as shown in the following record for the last 13 years:

Year	No. of Garages	Cost
1915	595	\$ 723,260
1916	878	1,307,340
1917	833	1,296,310
1918	480	833,320
1919	1,322	2,726,540
1920	1,153	2,502,290
1921	1,569	3,505,695
1922	1,909	5,072,765
1923	2,522	5,415,885
1924	2,778	6,951,430
1925	2,381	8,191,025
1926	1,701	5,249,300
1927	1,658	5,071,885
1928	1,400	3,215,090

The Forty-second Ward with 2395 dwellings erected in 1928 led all districts. In 1927 the same ward led with 2552 dwellings erected. The Thirty-Fifth Ward was again second with 2078 dwellings erected in 1928 and had 2402 in 1927. The Thirty-fourth Ward with 559 dwellings in 1928 was third whereas in 1927 this ward had only 302. The Forty-First Ward with 554 dwellings was next with only one dwelling less erected in 1928 than in 1927. The Thirty-Third Ward with 453, the Twenty-second with 395, the Fortieth with 375 came in order named, but all showed declines over 1927.

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INDUSTRY TO HOLD GENERAL CONFERENCE FOR CONSIDERATION OF PROPOSED COMMERCIAL STANDARDS FOR FURNACE AND FUEL OILS

A general conference of oil refiners, fuel oil distributors, the manufacturers of oil burning equipment, organized consumers, representatives of engineering associations and other interests, will be held at the Pennsylvania Hotel, New York City, January 9, 1929, beginning at 10 o'clock for the purpose of considering a proposed commercial standard for Furnace and Fuel Oils, according to an announcement of the Commercial Standards Unit of the Bureau of Standards, United States Department of Commerce.

The question of securing the most efficient grade of fuel oil for various types of oil burners is one that is perplexing the manufacturers of oil burning equipment, the oil refining companies, the fuel oil distributors, and most of all, the home owner who pays the bills and experiences the difficulties. In an effort to eliminate much of the misunderstanding and confusion that now exists, the American Oil Burner Assn. has asked the co-operation of the Commercial Standards Unit. This association, working in close co-operation with the American Petroleum Institute and the American Society for Testing Materials, has formulated specifications for three grades of furnace oil and three grades of fuel oil. These grades will be proposed as Commercial Standards for furnace and fuel oil and when accepted by industry, they will become the working basis for the industry, the recognized grades of the refiners, distributors and users.

Knowing that several well defined grades of fuel oil will be in demand the oil refiners can proceed in their operations with confidence. They can store large quantities with assurance of its future demand. The distributors of fuel oil become as thoroughly familiar with the standard grades of oil as coal dealers are with the various sizes of coal, and the oil burner manufacturers can recommend a definite grade for his particular type of burner and the guess-work and difficulties will be eliminated for the consumer. The benefits to be derived from the use of Commercial Standards depend on the degree of co-operation which they receive from elements of the industry, and the function of the Commercial Standards Unit of the Bureau of Standards is to bring about this spirit of co-operation.

When construction of the Chicago Tower starts in February it will be the biggest project in winter building ever undertaken, according to Walter W. Ahlschlager, architect of this new skyscraper, which, when completed, will be the tallest

and largest building in the world.

"Winter building has been general only since 1921," Ahlschlager said, "and while it is becoming more and more common the undertaking of construction of the Chicago Tower in the very midst of the dull building season will be an advance in building methods. Most builders, even now when winter building is common, strive to have a part of their structure under way before the winter season sets in. On our project we will start to build from the ground up in February.

"One factor by which we hope to profit through winter building is in the selection of a building crew. February is a dull month in most of the building trades and we will be able to select a construction crew of the most expert labor. While we will be benefiting ourselves through picking our men we will at the same time be aiding labor by creating a market for employment at a time when the building industry generally is at its lowest ebb.

"It is my opinion that the winter building on the Chicago Apparel Mart will give an impetus to the general tendency towards greater building activity during the winter months and that in the future the whole building industry will become less seasonal."

One who travels much and is observant, particularly if interested in sociological questions, is impressed with the ugliness of our cities—the erratic nature of the skyline, the utter lack of order or symmetry in the arrangement of streets and buildings.

Chicken feathers blown around in barnyards are not lacking in order any more than the ordinary city in its physical arrangement. Here and there you get a block or two that is orderly but for the most part, it is just one grand chaos. On the streets where land is of the greatest value, we have a wondrous collection of shacks and old dilapidated buildings.

Now, as this is a world of cause and effect and we all believe that every effect has a cause, what is the cause or the reason for this chaos? Looking into this matter with any degree of earnestness one must be impressed that it is nothing but the tax system which imposes fines upon those who build and beautify, and offers a reward to those who hold lots out of use for speculative purposes; and if the owners of old shacks that are on valuable land were to tear the old shacks down and put up modern buildings, the taxes we would impose upon them would be so great that between the high capitalization of land and the heavy taxes upon the building, in the run of years they would find it impossible to break even with the open market price of money on the venture.

This is a much more serious matter than most people imagine. It artificially

pushes the periphery of the city away beyond all reasonable bounds, for so much land is held idle in the heart of our cities for speculative purposes that it makes it necessary for capital and labor, in order to get land upon which they can operate and get a return, to go to the extreme outskirts to get cheap land, or land that they can use and still get a market rate on their labor or their capital.

This artificial spreading of the area of a city is disastrous to the budget, for it necessitates streets and roads and lights and schools and other public services spread over a large area. The idle part of this area does not pay in taxes anything like the cost of the social service it gets, therefore necessitating heavy taxes upon improvements. This is the real force that plunges our cities into debt; and a city debt is like a personal debt, a disgrace. In the case of a person, it proves conclusively that he is living beyond his income, in the case of a city it is exactly the same thing. The issue of bonds is merely drawing on tomorrow's income.

Now, of course, it is better to go into debt for schools than to have no schools—it is better to go into debt for sewers than to have no sewers. But there is no necessity to have either debts or no sewers; for nature supplies a revenue, which, if we have sense enough to collect, is ample to meet all the needs of sociological development and that too, without the piling up of debts. City debts really represent the amount of annual economic rent that we give away to individuals who render no service and who deliver no goods, instead of collecting it and with it meeting the cost of our social services. If a man were to give away his income at the first of the year, the only way he could live for the rest of the year would be to borrow or to steal. When a city gives away its natural revenue, there is nothing for it to do, as it must live, but to steal; that is to levy a tax, or to take private property to make good the deficit, or go into debt. In other words, borrow from the future to meet the deficit caused by the stupidity of today.

JAMES R. BROWN.

In the second article of its series of news releases for home owners on "Reconditioning Your Home," just made public, the American Construction Council through its president Franklin D. Roosevelt suggests step by step how to start and what procedure to follow on the reconditioning of a home.

"After giving due consideration to the general factors as discussed in the previous article, the first step for the home owner is to determine whether the location of his home justifies the further expenditure of money. In general, he

A Classified and Tabulated Statistical Review of Structural Activities During 1928

Number of New Buildings Erected from January 1st to December 31st, 1928

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Operations	Estimated Cost
Amusement, Places of.....	4	1	1	..	1	1	1	..	1	..	1	..	11	\$4,335,000
Banks.....	1	..	2	..	1	..	..	2	1	..	..	1	8	952,000
Bath Houses.....	..	..	..	..	..	..	..	..	..	1	..	..	1	20,500
Churches.....	1	1	3	4	2	4	4	1	1	4	..	..	25	1,661,700
Dormitories.....	..	..	..	1	..	..	1	..	..	..	..	1	3	1,666,000
Dwellings, one-story.....	1	1	..	1	2	2	1	1	1	..	1	1	12	42,000
“ two-story.....	182	651	1244	704	753	1149	465	806	361	439	492	293	7539	31,354,690
“ three-story.....	3	14	8	44	10	22	7	7	18	5	15	2	155	2,034,020
“ Frame.....	2	5	3	4	7	6	1	2	3	3	3	7	46	224,500
*Engine and Boiler Houses.....	..	..	1	..	2	1	1	1	..	1	..	1	9	248,500
Garages.....	74	95	149	135	148	160	101	98	103	159	112	66	1400	3,215,090
Gymnasiums.....	..	..	1	..	..	..	..	..	..	1	3	..	1	130,000
Hospitals.....	1	1	1	1	..	1	..	2	1	1	..	..	14	5,732,600
Hotels.....	..	..	..	..	..	..	..	..	..	..	..	..	1	1,000,000
Hangar.....	..	..	..	..	..	..	..	..	..	..	..	..	1	25,000
Library.....	..	..	..	..	1	..	..	..	..	..	..	..	1	42,000
Manufactories.....	3	8	4	3	8	6	3	17	4	..	7	12	84	5,651,450
Municipal Buildings.....	..	..	..	..	..	..	..	..	..	1	..	..	1	110,000
Museum.....	..	..	..	1	..	..	..	..	..	..	..	..	1	200,000
Miscellaneous Buildings.....	6	2	3	4	4	3	7	..	3	7	5	2	46	170,920
Office Buildings.....	5	8	4	6	3	2	2	3	1	5	1	..	40	6,870,365
Parish Buildings.....	..	..	1	..	..	..	..	..	..	..	..	..	1	20,000
Power Buildings.....	1	..	2	..	1	1	1	..	..	1	1	..	9	160,625
Pumping Station.....	..	..	..	..	1	..	..	1	..	..	..	..	1	375,000
Railroad Stations.....	..	..	..	..	..	..	..	1	1	..	..	..	1	1,000,000
Recreation Buildings.....	..	..	..	..	3	..	..	..	..	..	..	..	4	157,000
Rooming Houses.....	..	1	..	..	..	..	..	..	..	..	..	..	1	50,000
Stadium.....	..	..	..	1	..	..	..	3	1	4	..	..	1	200,000
Schools.....	..	3	1	4	2	2	..	..	1	..	..	..	20	6,243,790
Stables.....	1	..	..	..	..	..	..	1	..	..	..	1	3	23,000
Stores.....	9	8	9	10	9	15	6	7	8	7	7	3	98	2,465,840
Tenement Houses.....	9	2	2	8	12	12	11	6	3	4	7	5	81	17,277,450
Warehouses.....	7	9	13	5	11	5	9	6	5	8	5	5	88	3,857,400
Workshops.....	5	7	7	7	7	5	3	5	4	4	4	2	60	366,095
*Depots.....	..	..	..	..	..	..	1	..	..	..	..	..	1	7,500
Club Houses.....	..	1	1	..	..	..	1	..	..	..	..	..	3	1,633,000
Total New Buildings.....	315	818	1460	945	988	1397	628	969	522	663	664	402	9771	\$99,523,035
Additions.....	103	76	181	201	226	173	208	181	143	189	127	82	1890	6,169,715
Alterations and Repairs.....	211	239	283	259	293	282	282	252	237	271	201	177	2987	4,374,925
Grand Total.....	629	1133	1924	1405	1507	1852	1118	1402	902	1123	992	661	14648	\$110,067,675
Fire Escapes.....	..	..	..	..	..	..	..	..	..	..	..	..	38	19,245
Heaters.....	..	..	..	..	..	..	..	..	..	..	..	..	17	12,230
Oil Burners.....	..	..	..	..	..	..	..	..	..	..	..	..	122	38,545
Miscellaneous Work.....	..	..	..	..	..	..	..	..	..	..	..	..	1577	1,588,050
Signs.....	..	..	..	..	..	..	..	..	..	..	..	..	224	78,935
Total Work of All Kinds.....	..	..	..	..	..	..	..	..	..	..	..	..	16626	\$111,804,680

should if possible obtain the advice of a reliable realtor, or bank or loaning institution as to all points involved on this. Here the home owner should consider exactly such points as if he were buying or building a house: (a) General surroundings; (b) Drainage; (c) Air and sunlight and freedom from noise and other disturbing features; (d) Availability of public utilities, including electricity, gas and sewerage; (e) Easy access to schools, churches and transportation; (f) Zoning ordinances having to do with restrictions as to kind of buildings that can be put up in the neighborhood; (g) Present taxes and assessments; (h) Character of soil or rock in relation to cost of any necessary excavating; (i) Official acceptance of the street as a permanently improved street, for otherwise the cost of future improving may become burdensome.

"The second step for the home owner is to decide what general *type of alterations* his home will justify. For example, he should decide whether he wants the remodeling to be done in frame, brick, stucco, hollow tile or stone, etc. This step is important in determining many points in his later procedure and should be definitely decided at the start. His decision on this point depends, of course, not merely upon what his personal preference may be, but also upon the present structural nature of his house and what it will best justify.

"The third step for the home owner is to give careful thought to the *layout* of his house in relation to the detailed alterations desired. In this connection he should keep in mind such things as the general size and shape of his house, number of rooms desired and how the old layout can best be tied into the proposed new layout. He should consider these things from four angles: (a) Good structural standards; (b) Economy; (c) Convenience; (d) Appearance. A good design of a house, for example, may be spoiled by not giving the necessary attention to the exposure of such rooms as the living room, bedroom and kitchen. Likewise, the old layout may not permit doing certain things the owner would otherwise like, without sacrificing one or more of the points mentioned. He should also bear in mind what other people may want in case he wishes to sell the house later, for otherwise it may have to be sold at a loss.

"At this point the home owner, if he has not done so before, should if possible employ the services of a reliable architect. The home owner can also get advice from reliable building material dealers or builders or building loan institutions in his community. Various local and national associations of manufacturers and distributors also render valuable service as to the best uses of their materials. Other agencies, such as the Ar-

chitects' Small House Service Bureau of the United States, Inc., and the U. S. Department of Commerce, furnish valuable information in their respective fields. A list of such associations and agencies, with addresses, is obtainable from the American Construction Council. Further detailed information on this as well as later steps to follow in the reconditioning of a home will be given in succeeding "News Articles."

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

Repetition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.

RECORD OF RESIDENCE CONSTRUCTION IN VARIOUS WARDS OF PHILADELPHIA FOR EVERY MONTH DURING THE YEAR 1928

Showing the Number of Houses for Which Permits Were Issued by the Bureau of Building Inspection

TWO-STORY DWELLINGS—Including Two-Story Stores and Dwellings																								
Wards	1	2	3	4	5	13	18	21	22	23	24	33	34	35	38	39	40	41	42	43	44	45	46	Totals
Jan.	..	..	..	..	..	..	..	..	1	4	..	..	17	9	..	..	22	..	126	..	..	3	..	182
Feb.	..	..	..	..	..	..	1	20	131	31	..	23	16	194	43	..	1	..	178	..	13	..	..	651
March	..	..	..	..	..	..	..	41	86	81	..	76	85	370	..	..	103	69	327	..	..	6	..	1244
April.	..	..	1	1	..	1	..	41	22	41	..	..	326	87	..	4	54	4	121	..	..	1	..	704
May.	..	..	1	..	..	..	..	20	20	31	1	106	..	341	1	..	19	..	211	2	..	..	..	753
June	..	..	..	1	1	..	..	65	50	14	..	52	..	427	61	23	62	15	378	..	..	..	..	1149
July	..	6	..	..	..	..	..	5	1	7	..	47	..	214	8	..	2	65	108	..	..	2	..	465
August	..	..	..	..	..	..	..	..	1	52	..	44	38	193	4	..	23	211	236	..	..	3	1	806
Sept.	1	..	..	..	..	..	1	..	..	1	..	2	27	82	8	1	3	44	188	..	1	2	..	361
Oct.	..	..	..	..	..	..	..	24	2	5	..	19	..	46	..	..	83	46	212	..	..	2	..	439
Nov.	..	..	..	..	..	..	..	1	64	21	..	84	8	79	9	..	2	66	153	..	..	5	..	492
Dec.	..	..	..	..	..	..	..	..	17	..	..	..	42	36	..	..	1	34	157	..	..	6	..	293
Totals	1	6	2	2	1	1	2	217	395	288	1	453	559	2078	134	28	375	554	2395	2	14	30	1	7539

THREE-STORY DWELLINGS Including Three-Story Stores and Dwellings															
Wards	2	3	7	21	22	23	32	34	35	38	40	41	42	45	Totals
Jan.	..	..	..	1	2	..	..	..	..	..	..	..	..	..	3
Feb.	..	..	..	2	..	..	..	2	..	..	..	..	10	..	14
March	..	..	..	1	4	..	1	..	..	1	..	1	..	..	8
April.	..	..	..	1	8	..	..	29	3	3	..	..	..	..	44
May.	1	..	..	1	4	..	..	..	2	..	..	..	2	..	10
June	..	..	8	..	6	1	..	..	2	..	..	1	4	..	22
July	..	..	..	..	3	..	..	1	1	..	..	1	..	..	7
August	..	..	..	..	2	..	..	..	..	5	..	..	..	..	7
September	..	1	..	..	2	..	..	1	..	7	..	..	7	..	18
October	..	..	..	..	..	..	..	2	1	2	..	..	..	..	5
November	..	..	..	..	10	..	..	..	..	..	..	..	4	1	15
December	..	..	..	..	1	..	..	..	..	..	1	..	..	..	2
Totals	1	1	8	6	42	1	1	35	9	18	1	3	27	1	155

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Plumbers Roadway Breaking Co.,
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Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
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DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

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Well, J. H., Co., 1315 Cherry St., Phila.

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Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

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Glenwood Ave., w. of 22nd St., Phila.

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Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
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CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

Jules H. Rosenberg, 2313 Walnut St., Phila.

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COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

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Bowers Bros. & Co., 2015 Sansom St., Phila.

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Clausen, Wm. H., 27th and Diamond Sts., Phila.
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BUILDING PAPER

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Entered at the Philadelphia Post Office as Second-Class Matter

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January 16, 1929

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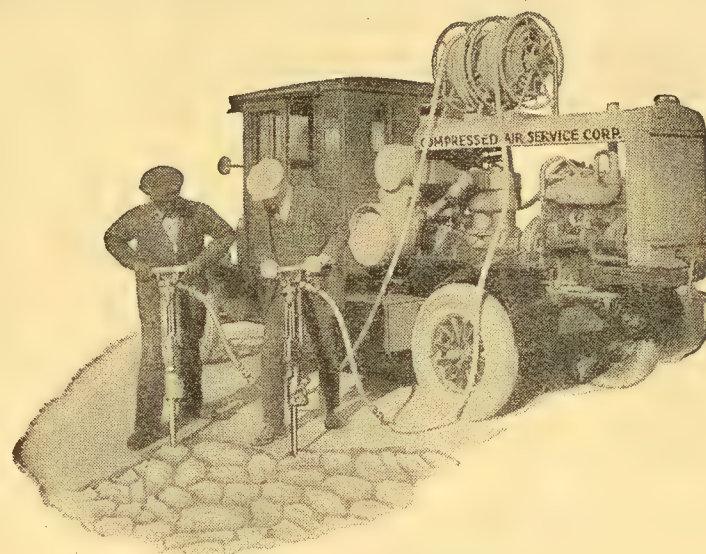
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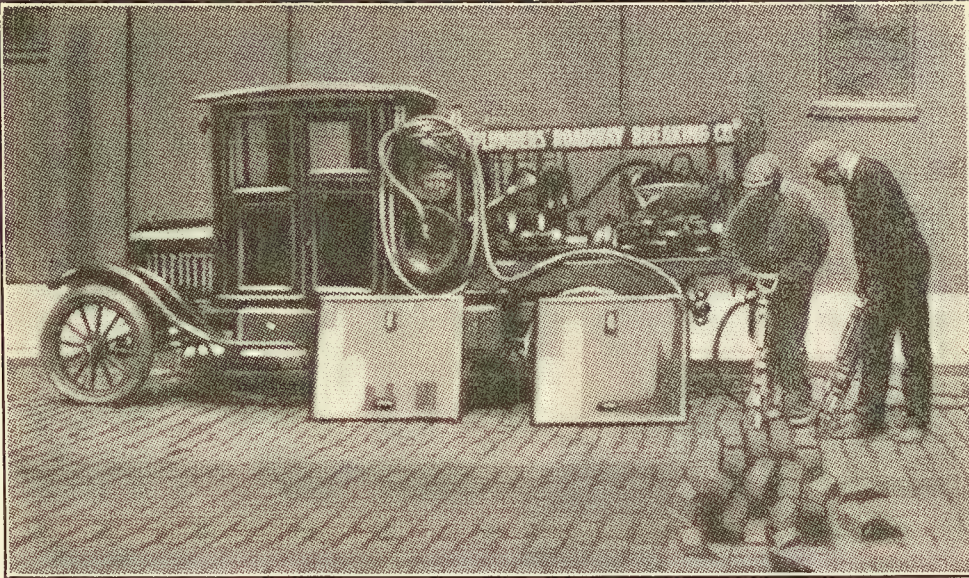
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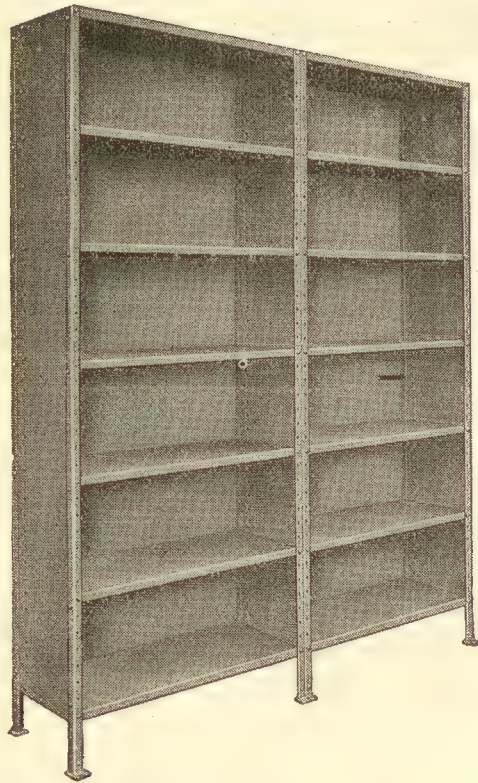
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Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 3

PHILADELPHIA
January 16, 1929

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BY

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Mary Brown Wanamaker Memorial, Poreston and Powelton avenue, Philadelphia, \$600,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Presbyterian Hospital, on premises. Work contemplated.

Club House, 1616 Latimer street, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, Cosmopolitan Club, care of architect. Brick, stone, steel, 23 feet 6 inches x 85 feet, number of stories and details undecided. Preliminary plans in progress.

Building (alts. and add.), Southwest Corner Bridge and Richmond streets, Philadelphia. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owners, Charles Lennig & Co., Richmond and Kennedy streets, Philadelphia. Brick, stucco, 2 stories and basement, 35x90 feet, slag roof, steel lockers, electric light. Plans about completed. Architect will take bids in a few days.

Apartment House (25 apartments), Sheldon avenue, between Stenton avenue and Shedaker street, Philadelphia. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, George Winter, 5029 Stenton avenue, Philadelphia. Brick, 3 stories, 125x60 feet, slag roof, elevators, steam heat, oil burners, electric light, tile and marble work. Owner taking sub-bids.

Synagogue, Southwest Corner Fifty-second and Columbia avenue, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Shaari Zedek Congregation, on premises. Brick, east stone, 1 story, audi-

torium rear, 3 stories, 36x120 feet, asphalt roof, steam unit heat, electric light, tile work, steel sash, oak floors, interior wall finish, stained and leaded glass, church seats, mill work. Ready for bids in a week.

Apartment House, Mt. Airy and Emlen streets, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, name withheld. Stone, brick, steel, 4 stories, 136x40 feet, 2 wings, 50x55 feet, slag roof, hardwood floors, elevator, Murphy beds, laundry and kitchen equipment, steam heat, oil burners, electric light, tile work, incinerators. Architect ready for sub-bids in a few days.

Theatre, Bank, Stores (9), Apartments (36), Northeast Corner Broad street and Sixty-sixth avenue, Philadelphia, \$1,500,000. Architect, William H. Lee, 1505 Race street, Philadelphia. Owner, Fred D. Felt, 1518 Walnut street, Philadelphia. Brick, steel, concrete, architectural terra cotta, 2 and 3 stories, 200x200 feet. Plans in progress. Architect will be ready for bids in ten days.

Store (alts. and add.), 224-30 North Twenty-second street, Philadelphia. Architect, W. F. Silliman, 28 South Eighteenth street, Philadelphia. Owner, Harry T. Saunders, 28 South Eighteenth street, Philadelphia. Brick, architectural terra cotta, 1 story, 25x132 feet, slag roof, concrete floors, Globe roof ventilators, steam heat, electric light. Architect taking bids due January 19th.

Church and School, 4611 Germantown avenue, Philadelphia. Architects, Edmunds & Green, Real Estate Trust Building, Philadel-

phia. Owners, St. Michael of the Saints Roman Catholic Church, Rev. E. C. Nusco, on premises. Stone, granite, limestone, steel, 2 stories and basement, 50x125 feet, slate roof, composition and maple floors, steam heat, electric light, metal lath, steel toilet partitions. Owners taking bids.

Residence and Garage, Merion avenue, East of Hirst avenue, Philadelphia. Architects, Casner & Williams, Drexel Park, Delaware County, Pa. Owner, Clinton S. Stiefel, care of Northern Trust Co., Sixth and Spring Garden streets. Brick, 2½ stories and basement, 32x72 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work. Architects taking bids due January 19th.

Sales and Service Building, Southwest Corner Erie avenue and F street, Philadelphia. Architect, private plans. Owners, International Harvester Co. Construction Department, D. W. Price, 606 South Michigan avenue, Chicago, Ill., care of Mr. Todd Henderson, 2905 North Sixteenth street, Philadelphia. Brick, stone, steel, reinforced concrete, 1 story and basement, 225 feet 6 inches x 110 feet, gypsum and composition roof, concrete floors, Nateo hollow tile, roof ventilators, iron stairs, bond, steel partitions, fire doors, hollow metal doors, ramps, hollow metal sash, terrazzo, metal lath (steam heating, ventilating, lighting fixtures, steel sash, glass and glazing, vault doors, wire screen partitions reserved by owners), electric lighting. Owners taking bids due January 24th.

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Philadelphia

Devon street, Philadelphia, \$5,000. Architect, private plans. Owner, A. Roman, 7927 Roanoke street, Philadelphia. Concrete block, 3 stories, 18x20 feet 6 inches, hot water heat, electric work, oak and yellow pine floors. Permit issued.

Residence, Southwest Corner Moreland avenue and Devon street, Philadelphia, \$5,000. Architect, private plans. Owner, S. Mareolina, 109 East Moreland avenue, Philadelphia. Concrete block, 3 stories, 18x20 feet 6 inches, hot water heat, electric work, oak and yellow pine floors. Permit issued.

Residences (6), 3448 to 58 Midvale avenue, Philadelphia, \$30,000. Architect, private plans. Owner, M. J. McCrudden, Fidelity-Philadelphia Building. Brick, 2 stories, 16x34 feet, hot water heat, electric light, slag roof. Permit issued.

Loft Building (alt.), Northeast Corner Broad and Lehigh avenue, Philadelphia, \$2,000. Architect, H. E. Mitchell, Elrae Building, Philadelphia. Owners, United Cigar Stores Co., Elrae Building, Philadelphia. Permit issued.

Miscellaneous Work, Philadelphia. Owners, Department of Wharves, Docks and Ferries, 4 South Wharves, Philadelphia. Schedule B, emergency repairs to floating plant. Certified check, 5 per cent. Owners taking bids due January 21st at noon.

Store (alts. and add.), 4460 Frankford Avenue, Philadelphia. Architect, E. J. Hoffman, 485 Fifth Avenue, New York City. Owner, Schulte-United Co., 485 Fifth Avenue, New York City. Brick, terra cotta, granite, 2 stories and basement, 144x41 feet, Barrett slag roof, maple floors, electric elevators, mason safety treads, metal window guards, metal ceilings, R. I. W. Integral waterproofing, cast-stone, electric light, metal lath, tile and Vermont marble, hollow metal sash, kalamein doors, demolition iron stairs, ornamental iron work, bronze work. Owner taking bids due Jan. 19th.

Residences (3), Residences and Stores (2), South side Berks St., East of Upland Way, Philadelphia, \$146,000. Architect, private plans. Owner, Wm. Madway, 4218 Lancaster Ave., Philadelphia. Brick, 2 stories, 15x30 feet, 12x14 feet and 3 stories, 20x64 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Ice Plant, West side American street, N. of Kerks St., Philadelphia, \$10,000. Architect, private plans. Owner, M. A. Young, Phillips St., North of Berks Street, Philadelphia. Brick, 1 story, 27x54 feet. Permit issued.

Power House (alts.), South side Reed St., east of Meadow street, Philadelphia, \$9,000. Architect, private plans. Owner, Franklin Sugar Refining Co., Reed and Meadow Sts., Phila. General alterations. Permit issued.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Schools (3), Front and Spencer streets; Ditman and Aramingo streets; Robbins and Battersby streets, Philadelphia. Architect, Irvin T. Catherine, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Contracts awarded: Front and Spencer Streets School—Weiss Construction Co., 1422 Master street, Philadelphia, \$388,500; plumbing, Fred Wackenhutt, 3416 Frankford avenue, \$19,635; heating, McClintock & Son, 1937 Ridge avenue, \$44,950; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, \$1,947; electric, Harry S. Mitchell, 1337 McFerran street, Philadelphia, \$15,850. Ditman and Aramingo Streets School—Weiss Construction Co., 1422 Master street, Philadelphia, \$391,000; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$19,266; heating, McClintock & Son, 1937 Ridge avenue, Philadelphia, \$44,950; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, \$1,947; electric, Harry S. Mitchell, 1337 McFerran street, Philadelphia, \$15,850.

ell, 1337 McFerran street, Philadelphia, \$15,850. Robbins Avenue and Battersby School—Weiss Construction Co., 1422 Master street, Philadelphia, \$426,000; plumbing, Fred Wackenhutt, 3416 Frankford avenue, \$20,763; heating, McClintock & Son, 1937 Ridge avenue, \$44,950; electric, Harry S. Mitchell, 1337 McFerran street, \$15,850; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, \$1,947. Specification 330, Germantown High School, W. W. Anstine, Oxford and Frankford avenue, Philadelphia, \$3,030. Specification 344, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$2,386.

Office Building (add.), 516-18-20-22 Walnut street, Philadelphia. Architect, E. J. Matthewson, Bulletin Building, Philadelphia. Owners, Penn Mutual Life Insurance Co., W. A. Law, president, Sixth and Walnut streets, Philadelphia. Granite, steel, concrete, 7 stories, 75x150 feet, steam heat, tile roof, elevators, metal weather strip, electric light, metal lath, tile, marble and terrazzo work, fire doors. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia.

Commercial Building, 5131-37 Walnut street, Philadelphia. Architect, H. G. McMurtrie, 1321 Arch street, Philadelphia. Owner, Louis G. Groh, on premises. Brick, steel, terra cotta, 2 stories and basement, 60x110 feet, built-up roof, cement and concrete floors, heating, electric light, metal lath, rolled steel sash, metal skylights, metal bulks. Contract awarded A. Raymond Raff Contracting Co., 1635 Thompson street, Philadelphia.

Store and Warehouse, Kensington avenue and Pike street, Philadelphia, \$45,000. Architect, private plans. Owners, William K. Grauer & Son, 1832 Frankford avenue, Philadelphia. Limestone, wood joist, 3 stories and basement, brick, 40x87 feet, steam heat, electric light, wood sash, cement floors, plumbing. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Foundations for Office Building, Pennsylvania Boulevard, Sixteenth to Seventeenth streets and Cuthbert street, Philadelphia. Architects, Graham, Anderson, Probst & White, Railway Exchange Building, Chicago, Ill. Owners, Pennsylvania Railroad Company, Thomas Hulme, vice-president, 15 North Thirty-second street, Philadelphia. Contract awarded Keystone State Corporation, Franklin Bank Building, Philadelphia.

Dairy Building (alts.), 1523 North Twenty-sixth street, Philadelphia, \$5,000. Architect, private plans. Owners, Supplee-Wills-Jones Co., on premises. General interior alterations. Contract awarded George Kessler Contracting Co., 1733 North Marvine street.

Tanks (2), Southwest Corner Swanson and Jackson streets, Philadelphia, \$15,000. Architect, private plans. Owners, Wilson-Martin Company, on premises. Contract awarded B. P. Lientz, 1270 Broadway, New York City.

Residence and Store (add.), 237 West Cheltenham avenue, Philadelphia, \$4,000. Architect, private plans. Owners, Elliott Studios, on premises. Brick, 1 story, 22x22 feet. Contract awarded John Roman, 414 East Bringhurst street, Philadelphia.

Residence and Store (alt.), Southeast Corner Twenty-second and Carpenter streets, Philadelphia, \$2,000. Architect, private plans. Owner, Sol. Soffrin, Jefferson and Mervine streets, Philadelphia. Contract awarded M. Marshall, 115 North Fourth street, Philadelphia.

Residence (add.), South side Manatauna, West of Hagy's Mill road, Philadelphia, \$50,000. Architect, private plans. Owner, Samuel F. Houston, Willow Grove avenue, Chestnut Hill. Stone, 2 stories, 35x70 feet 8 inches, electric work, hardwood floors. Contract awarded Charles Bowman, Germantown and Willow Grove avenues.

Bungalow, North side Flamingo, East Manti street, Philadelphia, \$2,500. Architect, private plans. Owner, Arthur Walker, Mi- quion, Montgomery County. Brick, 2 stories, 23x52 feet, hot water heat, electric work. Contract awarded John Turri, 729 East Shawmont avenue, Philadelphia.

Coal Storage Trestle, Southeast Corner Twenty-fifth and Moore streets, Philadelphia, \$17,000. Owners, Crean Brothers, Inc., Eighteenth below Shunk street, Philadelphia. Concrete. Contract awarded Frank X. Brennan, 2507 Tasker street, Philadelphia.

Residence and Office, 5239 Chestnut street, Philadelphia, \$8,000. Architect, private plans. Owner, William C. Christie, 5213 Chestnut street, Philadelphia. Brick, 2 stories, 15x35

feet. Contract awarded E. L. Seeds, 1101 Divinity Place, Philadelphia.

Residence (alt.), 922 South Forty-sixth street, Philadelphia, \$3,600. Architect, private plans. Owner, William Mader, on premises. Contract awarded William H. Erb's Sons, 1474 North Fifty-second street, Philadelphia.

Residence (add. and alt.), 122 South Forty-third street, Philadelphia, \$3,000. Architect, private plans. Owner, James Brown, on premises. Brick, 1 story, 11x6 feet. Contract awarded Samuel Detwiler, 243 East Wister street, Philadelphia.

Residence (alt.), 425 West Johnson street, Philadelphia, \$2,230. Architect, private plans. Owner, Charles F. Credo, on premises. Contract awarded William C. Wright & Son, 22 Harvey street, Philadelphia.

Residence (add.), 304 West Earham terrace, Philadelphia, \$2,000. Architect, private plans. Owner, Dr. B. A. Manning, on premises. Brick, 1 story, 12 feet 6 inches x 27 feet. Contract awarded William C. Wright & Son, 22 Harvey street, Philadelphia.

Department of Public Works, Bureau of Engineering and Surveys, City of Philadelphia. Contracts awarded. Branch sewers: Castor avenue, between Roosevelt Boulevard and Cottman street, Philadelphia, Vattieri & Ponterelli, 523 Rising Sun avenue, Philadelphia, \$49,459. Eighth street, from Snyder avenue to McKean street, Philadelphia, Pasquale Pinciotto, 4104 East Roosevelt Boulevard, Philadelphia, \$5,271. Sprague street, from Gorgas to Vernon road, Philadelphia, Ernest Ventresco, 6016 Ross street, Philadelphia, \$5,862. Unruh street, from Battersby to Brouss street, Philadelphia, McCool Construction Co., 5033 Duffield street, Philadelphia, \$1,934. Main sewer, Hellerman street, from Battersby to Bradford street, Philadelphia, M. J. Driscoll, 3601 Haverford avenue, Philadelphia, \$64,034. Sewage disposal project, concrete sheet piling. Triest & Earl, Real Estate Trust Building, Philadelphia, \$15,190.

Residence (add. and alts.), 240 South 4th street, Philadelphia, \$4,000. Architect, private plans. Owner, Samuel Schiff, on premises. Brick, 1 story add, 3x26 feet, general alterations. Contract awarded Samuel Stein, 536 Tasker street, Philadelphia.

Garage (alts.), 821 North Second street, Philadelphia, \$2,000. Architect, private plans. Owner, Samuel Kamens, 5448 Chestnut street, Philadelphia. General alterations. Contract awarded Fairhill Const. Co., Inc., 257 South 9th street, Philadelphia.

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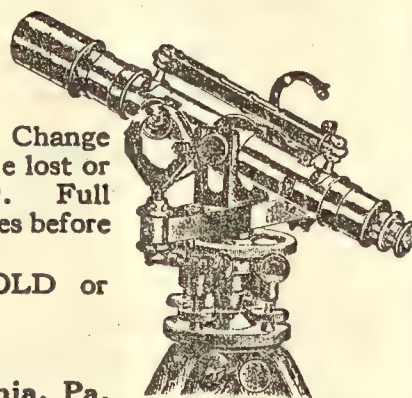
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Pennsylvania Construction News

Tuberculosis Hospital, Delaware County, Pa. Owners, Delaware County Tuberculosis Society, Dr. W. W. Comfort, president of Haverford College, Haverford, Pa., chairman of Building Committee. Work contemplated.

Disposal Plant, Pottstown, Pa. Engineers, William H. Dechant & Son, Reading, Pa. Owners, Borough of Pottstown, Stanley Swinehart, chairman, Pottstown, Pa. Plans in progress.

Residence Development, Argyle road and Wynnewood road, Wynnewood, Pa. Owners, Lower Merion Realty Co., Land Title Building, Philadelphia. Stone, brick, stucco. Work contemplated in spring.

Residence Operation, York and Welch roads, Willow Grove, Pa. Architect, private plans. Owners, Albrecht & Gourley, Willow Grove, Pa. Brick, frame, stucco, 2½ stories. Details undecided. Work contemplated in spring, 1929.

Masonic Temple, West Marshall street, between Hamilton and Selma streets, Norristown, Pa. Owners, Charity Lodge, No. 190, F. and A. M., Norristown, Pa. Size of lot, 331x252 feet. Work contemplated.

Factory, Columbia, Pa. Architect, S. Bryan Baylinson, 1712 Franklin Trust Building, Philadelphia. Owners, Marietta Silk Mill, Columbia, Pa. Brick, steel, concrete, 2 stories, 82x130 feet, built-up roof, concrete floors, electric light. Plans in progress.

Raub Junior High School (add.), St. Cloud and Walnut streets, Allentown, Pa., \$200,000. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Allentown School District, D. A. Miller, president, 29 South Penn street, Allentown, Pa. Fireproof, 3 stories, 109x33 feet, 39x65 feet, 30x48 feet,

maple and composition floors, safety treads, roof ventilators, metal lath, tile, marble, fire doors. Plans in progress.

Junior High School, Mouneain Valley, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Salisbury Township School Board, J. Mory, secretary, Mountain Valley, Pa. Fireproof, 3 stories. Sketches in progress.

Store (alts.), East Third street, Bethlehem, Pa. Architect, W. J. Bane, Perkins Building, 529 Hamilton street, Allentown, Pa. Owner, name withheld. General alterations, tile and composition floors, copper sash, plate glass. Plans in progress.

School (add.), Hatboro, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, William Small, Hatboro, Pa. Brick, 1 story add. Sketches drawn.

Consolidated Grady School, Duncannon, Pa., \$30,000. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Penn Township School Board, J. G. Mutzabaugh, secretary, Duncannon, Pa. Brick. Preliminary plans in progress.

Clock Tower, Wilkes-Barre, Pa., \$150,000. Architect, T. H. Atherton, 139 South Main street, Wilkes-Barre, Pa. Owners, Luzerne County Commissioners, care of architect. Stone. Sketches in progress.

Fire House (add. and alts.), Miners Mills, Pa. Architect, Carl J. Schmitt, 198 North Main street, Wilkes-Barre, Pa. Owners, City of Wilkes-Barre, care of architect. Brick, 2 stories. Preliminary plans in progress.

Residence and Garage, Elkins Park, Pa. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Horace B. Beck, care of architect. Stone, cinder block, stucco, 3½ stories, 35x70 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in 10 days.

Residence, Market street, Bethlehem, Pa. Architect, W. J. Bane, 529 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, 2½ stories, 33x35 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress. Architect will be ready for bids in about three weeks.

Twin Residence, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, E. O'Reilly, 2 East Third street, Bethlehem, Pa. Brick, 2½ stories, 32x45 feet, slate roof, pine floors, electric light. Owner will build.

Residence and Garage, Windber, Pa. Architect, C. A. Ziegler, 1011 Walnut street,

Philadelphia. Owner, George A. Smith, Windber, Pa. Stone, 2½ stories, shingle roof, hardwood floors, vapor heat, tile work. Owner taking bids from local contractors.

Hospital, Nurses' Home, Power House and Garage, Old York road and Chester avenue, Abington Township, Willow Grove, Pa., \$500,000. Architect, William L. Charr, Victory Building, Philadelphia. Owners, Willow Grove Hospital and Sanitarium, Inc., care of architect. Fireproof construction, steel, concrete, stone, 4 stories, 150x180 feet, brick, slag roof, composition floors, hollow tile, elevators, safety treads, metal weather strip, waterproofing and dampproofing, flagstone, cast stone, bluestone, brick stacks, wall finish, incinerators, H. P. steam heat, oil burners, electric light, tile and marble work, rolled steel and hollow metal sash, fire and kalamein doors, bond, floor hardener, iron stairs, soundproofing, casement windows, ornamental iron work, brass pipe, wrought iron pipe, area gratings, cinder concrete block. Architect taking sub-bids due at once.

Residence, near Willow Grove, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Elkins Sheble Co., Willow Grove, Pa. Stone, 2 stories, 28x86 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Owners taking sub-bids.

Consolidated High School, Damascus, Pa., \$50,000. Architect, Lewis Hancock, Mears Building, Scranton, Pa. Owners, Damascus Township School District, Fred Seipp, secretary, Damascus, Pa. Brick and Duntile, 2 stories, 75x103 feet, asbestos roof, maple and pine floors (heating, plumbing and electric separate), rolled steel sash. Plans completed. Owners will take bids.

Technical School (add.), Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, Scranton School Board, Frank T. Magovern, president, 425 North Washington avenue, Scranton, Pa. Fireproof, 5 and 4 stories, 250x142 feet, built-up roof, maple floors, hollow tile, safety treads, roof ventilators, metal window guards, waterproofing and dampproofing, acoustical treatment, flagstone, ornamental iron, casement windows, soundproofing, iron stairs, bond, fire doors, skylights, tile, metal lath (heating, plumbing and electric separate). Owners will be ready for bids about January 17th, due February 25th.

Church and School, North Main street, Wilkes-Barre, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, St. John's Evangelical Roman Catholic



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Church, Rev. D. J. Kane, 115 North Main street, Plains, Wilkes-Barre, Pa. Brick, 1 story, 130x65 feet, slate roof, art glass. Plans in progress. Architect will be ready for bids about February 1st.

Residence, Garage and Servants' Quarters, Bryn Mawr, Pa., \$100,000. Architects, Paul Cret and T. B. White, 112 South Sixteenth street, Philadelphia. Owner, Victor Mauck, 8 Merion avenue, Merion, Pa., and care of John Wood Manufacturing Co., Conshohocken, Pa. Stone, 2½ stories, 25x200 feet, slate or shingle roof, hardwood and pine floors, electric light, tile, marble, steel sash, landscaping and gardening (10 acres), 4-car garage. Plans in progress. Architects will be ready for bids about February 15th.

Store Building, Garrett road, Upper Darby, Pa. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owner, name withheld. Limestone or artificial stone front, brick, 2 stories and basement, 75x137 feet, steel frame, polychrome terra cotta, slag roof, maple floors, hot water heat, electric light, tile work, metal lath, marble (extension) steel sash, bronze bulks. Plans in progress. Architects will be ready for general bids February 1st.

Residence and Garage, Ambler, Pa. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owner, H. A. Fraser, Haverford avenue and Ardmore Junction, Ardmore, Pa. Stone, 2½ stories, 30x45 feet. Owner will build and is taking sub-bids.

Residences (4), Jericho road, Abington, Pa. Architect, private plans. Owner, H. C. Williams, York road, Abington, Pa. Brick, stucco, 2½ stories, 26x36 feet, wood shingle roof, hardwood floors, hot water heat, tile work. Owner will build and will take sub-bids in March.

Twin Residences (3 pairs), near Eagle road, Manoa, Pa. Architect, private plans. Owner, William Pollock, Highland Park, Pa. Stucco, frame, 2½ stories, 16x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build and will take sub-bids in spring.

Residence Operation, Pottstown, Pa. Architect, private plans. Owner, John T. Copenhaver, 709 North Charlotte street, Pottstown, Pa. Brick, 2 stories, various sizes, hot water heat, electric light. Owner will sub-let.

Two-Family Residences (6), Pottstown, Pa., \$30,000. Architect, private plans. Owner, Herbert B. Miller, 1256 Queen street, Pottstown, Pa. Brick, 2½ stories, 16x40 feet, asbestos shingle roof, hardwood floors, hot water heat, tile work, electric light. Owner will sublet.

Residence Operation, Pottstown, Pa. Architect, private plans. Owner, Fred S. Jones, 749 North Charlotte street, Pottstown, Pa. Brick, 2½ stories, 16x38 feet, hardwood floors, hot water heat, electric light. Owner will sublet.

Residences (2), Pottstown, Pa. Architect, private plans. Owner, Irwin F. Hutt, 1015 Bellview avenue, Pottstown, Pa. Brick, 2½ stories, 16x35 feet, asphalt roof, hardwood floors, hot water heat, electric light. Owner will sublet.

Apartment House, Seventeenth street, Roslyn terrace and Limekiln pike, Philadelphia.

Architect, Charles H. Donehower, 1420 Walnut street, Philadelphia. Owner, Charles Spahn, 1420 Walnut street, Philadelphia. Stone, brick, steel concrete, 4 stories, 83x90x80x38 feet 9 inches, slag roof, hardwood floors, elevators, steam heat, oil burners, electric light, tile work, servadors, incinerators. Architect taking sub-bids.

Apartment House, Melrose Park, Montgomery County, Pa. Architect, Charles H. Donehower, 1420 Walnut street, Philadelphia. Owner, Charles E. Spahn, 1420 Walnut street, Philadelphia. Brick, stone, steel, concrete, 3 stories, 150x150 feet, slag roof, hardwood and composition floors, elevators, steam heat, oil burners, electric light, tile work, servadors, incinerators. Architect and owner will take sub-bids in one week.

School, East End, Wilkes-Barre, Pa. Architects (associate), C. S. Schmitt and George F. Schroeder, 198 North Main street, Wilkes-Barre, Pa. Owners, Holy Saviour Church, Rev. J. J. McCabe, 35 Worrell street, Wilkes-Barre, Pa. Fireproof, steel, 2 stories and basement, 16 rooms, slag and built-up roof, maple and concrete floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, limestone, iron stairs, floor hardener, fire doors, bond, steel sash, tile, marble (heating, plumbing and electric separate). Plans in progress. Architects will be ready for bids in two months.

Residence, Retreat, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Central Poor District, Dr. Basket, Retreat, Pa. Brick, 2½ stories, 30x80 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect will take bids in 3 weeks.

Bakery (alts.), Easton road and Mt. Carmel avenue, Glenside, Pa. Architect, private plans. Owner, Earnest Gunn, Glenside, Pa. Demolition, excavation, stone work, brick work, cut stone work, concrete and cement work, structural steel, plastering, marble and tile work, painting, glazing, plumbing, steam heat, limestone (electric work, dumb waiter reserved). Owner taking bids due January 19th.

Residences (3), Wynnewood, Pa. Architects, McIlvaine & Roberts, 112 South Sixteenth street, Philadelphia. Owners, William Anderson, J. M. Anderson, 600 Schuylkill avenue; E. J. Schmidheiser, 1714 Land Title Building, Philadelphia. Stone, 2½ stories, 79x45 feet, 83x34 feet, 106x18 feet, respectively (heating, plumbing reserved by owner), slate and slag roof, pine, oak and slate floors, electric lighting, metal lath, tile and marble work, Kane metal weather strip. Architects taking bids separately and unit price for 3 residences due January 17th.

Parish House (alts. and add.), Drexel Hill, Delaware County, Pa. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Chapel of the Incarnation, Drexel Hill, Delaware County, Pa. Stone, 1 story and basement, 108x30 feet, slate roof, pine floors, steam heat, electric light. Architect taking bids due January 18th.

Shelter Shed, West Chester pike, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owners, Philadelphia & West Chester Traction Co., Upper Darby, Pa. Owners, Philadelphia & Garrettford Railroad Co., Sixty-ninth and Market streets, Philadelphia. Stone and frame, 1 story, 25x5 feet, shingle roof, painting, electric light. Architect taking bids due January 18th at noon.

Residences (2), Easton and Nylsen avenue, Roslyn, Pa. Architect, private plans. Owner, A. E. Kirschner, Roslyn, Pa. Frame, 2½ stories, 25x38 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build and will sub-let.

School, Thirteenth street, Reading, Pa. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Reading School Board, C. G. Boggs, Eighth and Washington streets, Reading, Pa. Fireproof, 2 stories, 65x257 feet, built-up roof, mastic floors, safety treads, roof ventilators, waterproofing and dampproofing. Low bidders: J. C. Snyder, Mechanics' Trust Building, Harrisburg, Pa., \$201,777; C. H. Schlegel, 528 Washington street, Reading, Pa., \$210,000; plumbing, Corbit Brothers, 147 North Fifth street, Reading, Pa., \$13,490; heating and ventilat-

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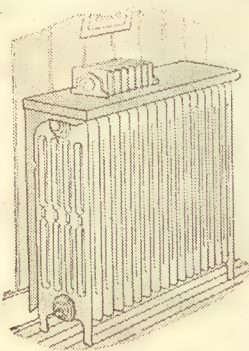
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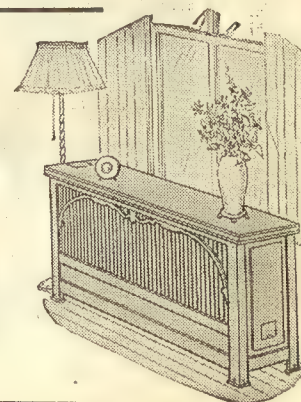
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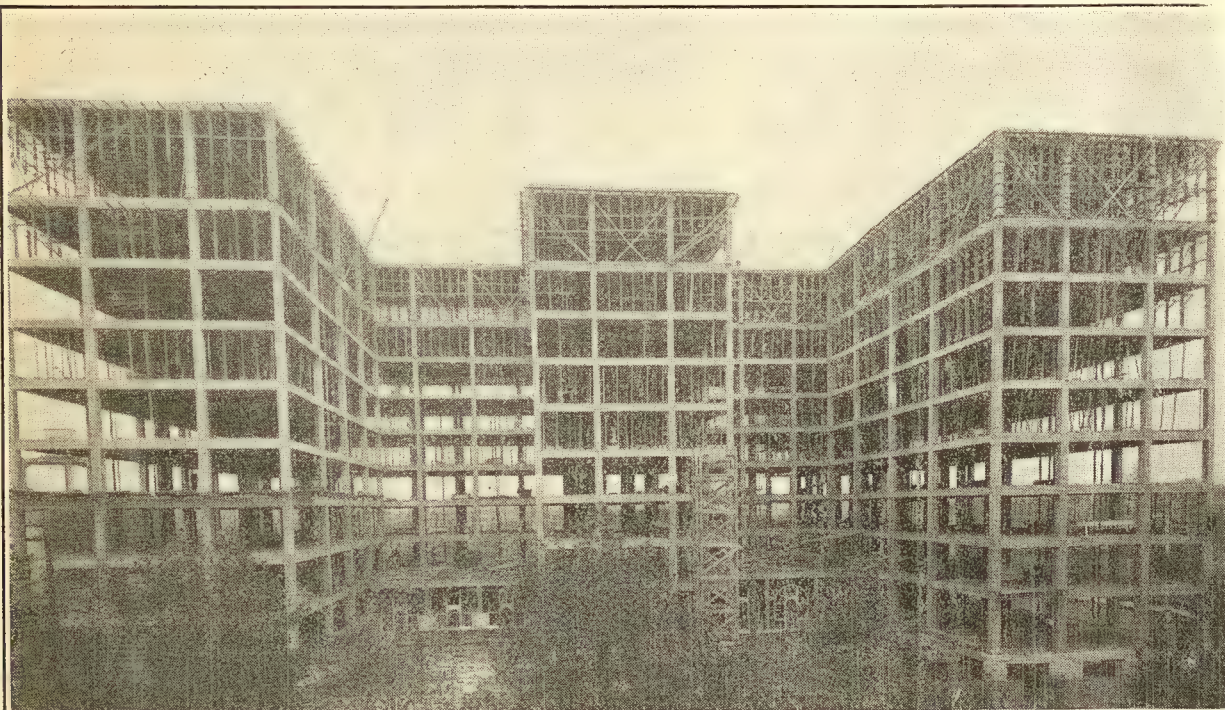
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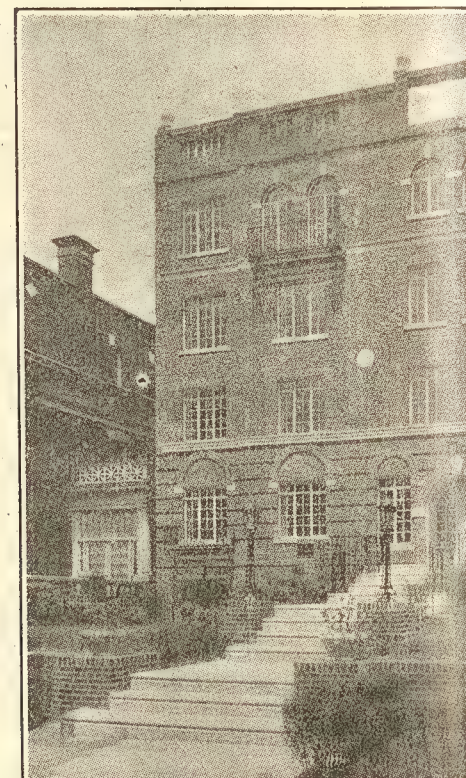
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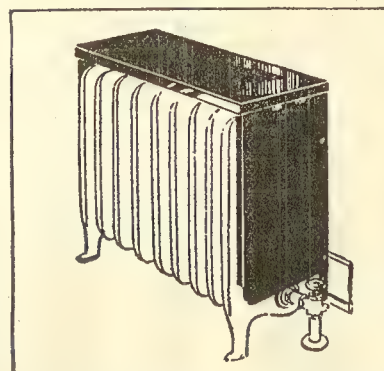
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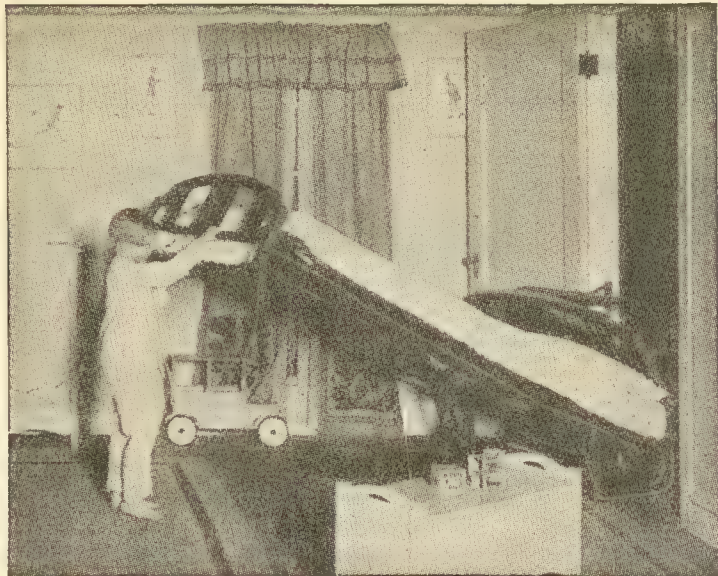
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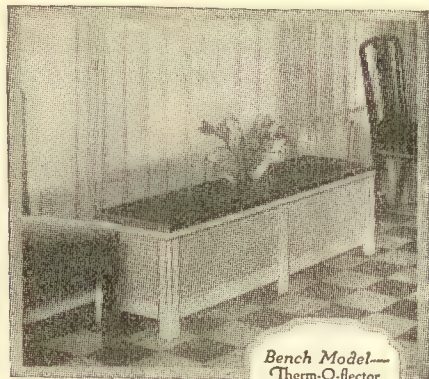
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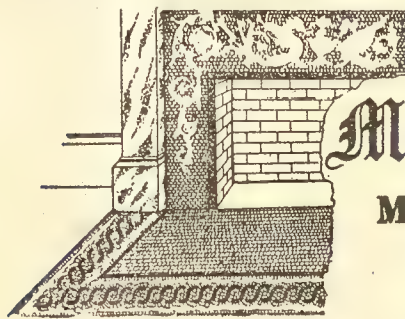
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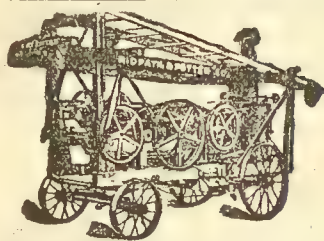
Bell Phone, Chestnut Hill 0227

ing, Wastner & Reddig, 206 North Sixth street, Reading, Pa., \$29,500; electric, Conestoga Electric Co., Lancaster, Pa., \$8,558.

Continuation School, Reading, Pa. Architect, Alex. F. Smith, 811-A Penn street, Reading, Pa. Owners, Board of Education, C. G. Boggs, Eighth and Washington streets, Reading, Pa. Reinforced concrete, brick, steel, 3 stories, 172x106 feet, asbestos roof, maple floors, hollow tile, safety treads, metal lath. Low bidders: W. C. Fritz, 302 North Eleventh street, Reading, Pa., \$177,390; F. K. Worley, Wesley Building, Philadelphia, \$180,700; plumbing, Wasner & Reddig, 206 North Sixth street, Reading, \$15,285; heating, Corbit Brothers, 147 North Fifth street, Reading, Pa., \$34,490; electric, Conestoga Electric Co.,

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31 North Queen street, Lancaster, Pa., \$10,142.

Church and Rectory, Darby, Pa. (Delaware Co.) Architect, Geo. I. Lovatt, 223 S. Sydenham St., Phila. Owner, R. C. Church of the Blessed Virgin Mary, Rev. W. A. Fitzgerald, Darby, Pa. Stone, steel, reinforced concrete, 1 story, 60x144 feet 8 inches (Plumbing, heating and electric reserved), slate and tin roof, concrete and tile, oak floors, terrazzo, flagstone, caststone, metallis waterproofing, area gratings, Lieperville stone, Foxcroft stone, Lenco or J. S. Thornsteel casement, Lupton metal frame and sash, Artstone stucco, J. Emack Co. variegated slate, \$1000 allowance for hardware. Architect taking bids due Jan. 25th.

School, Bluebell, Pa. Architect, Watson H. Phillips, 213 S. 5th St., Philadelphia. Owner, Whitpain Township Consolidated School Board, E. H. Phipps, Bluebell, Pa. Red R. T. brick, 2 stories and basement, 80½x97 feet, slag roof, cement, wood linoleum floors, (heating, electric, plumbing, ventilating separate), steel lockers and stairs, Gym and Assembly Hall, 500 seating capacity, 5 class rooms, offices, etc. Owner taking bids due Jan. 30th 8 P. M.

School, 7th and Ford Sts., Bridgeport, Pa. Owner, School Board of Bridgeport, Pa., (Supt. Smull, Bridgeport, Pa.) Owners considering competitive plans. Selection of architect will be announced shortly.

Passenger Station, Pittsburgh, Pa. \$5,000,000. Architect, private plans. Owner, Penna. R. R., W. W. Atterbury, Broad St. Station, Philadelphia, and E. E. Whiter, V. Pres., Pittsburgh, Pa. Plans about completed.

Apartment House (add.), Haverford, Pa. Architect, Hoffman Henon, Finance Bldg., Philadelphia. Owner Haverford Court, E. E. Cullen, 1524 Chestnut street, Philadelphia. Brick, steel, concrete, 4 stories, electric light. Plans in progress.

Residences and Garages (18), Elkins Park, Pa. Architect, Max A. Bernhardt, 127 South 18th street, Philadelphia. Owner, A. Adelson, Elkins' Park, Pa. Stone, 2½ stories, 26x36 feet, 20x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, cement work. Contractor Harry Goodstein, 127 S. 18th St., Philadelphia, will build and is taking sub-bids.

Day and Zimmerman Engineering and Construction Co., 112 North Broad street, Philadelphia, taking bids due January 22nd for the Board of Trustees of the Eastern State Penitentiary for Testing of Portland Cement in accordance with A. S. T. M. Requirements; also on Vitrified Clay Pipe and Fittings for delivery to the site of the new Eastern State Penitentiary, Gratersford, Pa.

Gymnasium Building, Coatesville, Pa., \$30,000. Architect, Malcolm Pownall, 519 E. Lincoln Hy., Coatesville, Pa. Owners, School Board of Coatesville, C. O. Benner, Supt., S. H. Scott, Pres., Coatesville, Pa. Brick. Details undecided. Plans in progress.

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Pennsylvania

Contracts Awarded

Store and Apartment (alts.), Ambler, Pa. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Bernard F. Meyers, Butler and Madison avenues, Ambler, Pa. Bond, demolition, excavation, cement floors, structural steel, brick, cinder building blocks, stucco work, metal lath, plastering, metal ventilators, linoleum floors, slag roof, slate roof, (Royal or equal) copper skylights, iron gratings, casement windows, mastic floors, oak and pine floors (plumbing, heating, electric oil burners reserved). Allowance for kitchen units, door beds, ranges, tile work, cast stone. Contract awarded Potts Brothers, Ambler, Pa.

Building No. 10, Glenolden avenue, Glenolden, Pa. Architect, private plans. Owner, Charles F. Eggleston, Glenolden, Delaware County, Pa. Lessees, United States Government, care of H. P. New, Postmaster General, Washington, D. C. Brick, 1 story, 22x60 feet, slag roof, cement and maple floors, hot water heat, electric light, steel sash, oil burner. Contract awarded L. S. Burleigh, Collingdale, Pa.

Residence and Garage, Lapidia Hills, Wallingford, Pa. Architect, J. L. Connaroe, 1518 Walnut street, Philadelphia. Owner, Gertrude Porto, care of architect. Stone, hollow tile, stucco, 2½ stories, 30x60 feet, 20x20 feet, shingle roof, hot water heat, electric light, hardwood floors, tile work. Contract awarded Joseph H. Bell, 616 East Fifteenth street, Chester, Pa., who is taking sub-bids.

Residence and Garage, Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement, 39x49 feet, slate roof, oak and pine floors (plumbing, heating and electrical work reserved), tile work, metal lath, bond, ornamental iron, casement windows, Kernerator, incinerator. Contract awarded Metzger & Co., Otis Building, Philadelphia.

Restaurant, 6816-18 West Chester pike, Upper Darby, Pa. Architect, Ralph Bencker, Thirteenth and Chestnut streets, Philadelphia. Owners, Horn & Hardart, 214 South Warnock street, Philadelphia. Brick, granite, limestone, steel, 1 story, mezzanine and basement, 40x80 feet, built-up roof, cement floors, hollow tile, roof ventilators, integral waterproofing, dampproofing, architectural terra cotta, metal lath, tile, marble and terrazzo work, rolled steel and hollow metal sash, rolled steel skylights, bond iron stairs, ornamental iron work, demolition, Mato Stone ironite waterproofing, caulking, revolving doors, bronze work, metal toilet partitions, vitrolite floors, cork insulation, steel doors, excavation, ornamental plaster, soiled dish conveyors, Rytle asphalt mastic floors. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia.

Residence and Garage, Huntingdon Valley Country Club, Tract, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, W. & M. Herkness, Packard Building, Philadelphia. Stone, 2½ stories, 25x93 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded E. J. Kreitzburg Co., 1333 Arch street, Philadelphia.

Remodeling Buildings (7), Naval Ammunition Depot, Fort Mifflin, Pa. Architect, private plans. Owners, Bureau of Yards and Docks, Navy Yard Department, United States Government, Washington, D. C. Concrete work, floor hardener, steel and iron work, corrugated asbestos roof, lighting protectors, painting. Contract awarded Evans Falcone,

Inc., 1420 Walnut street, Philadelphia, \$54,977.

Silk Mill, East Northampton street, Wilkes-Barre, Pa. Architect, C. S. Schmitt, 198 North Main street, Wilkes-Barre, Pa. Owner, Michael Simpson, care of architect. Brick, steel, 1 story and basement, 46x86 feet, slag roof, Barrett roof, pine, maple floors, vapor heat, electric work, steel sash, fire doors, ash hoist, waterproofing, ornamental iron, roof ventilators. Contract awarded John A. Schmitt, Bennett Building, Wilkes-Barre, Pa.

Residence, Wilkes-Barre, Pa. Architect, T. A. Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Earl D. MacCallum, 281 North Collepe avenue, Wilkes-Barre, Pa. Brick veneer, 2½ stories, 33x43 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Contract awarded R. J. & G. E. Jones, Kingston, Pa.

Repairs to Buttonwood Bridge, over Maa-man Creek, Lower Chichester Township, Pa. Owner, Delaware County Commissioners, G. T. Wades, Media, Pa. Taking up 3 inch planking on crosswise layers of 3 inch planking 1 crosswise, lengthwise (1), also 24x6 guard rails. Contract awarded Carl R. Camp, 10 South 18th Street, Philadelphia, Pa. \$1150.

Road Work, Pennsylvania. Owners, Penna. Department of Highways, Harrisburg, Pa. Mercer Co., R-446, A-5575, Lake, New Vernon, Perry and Sandy Lake Townships, Sandy Lake Borough. One course reinforced concrete. \$263,652.19. Contract awarded H. W. Baldwin, Willoughby, Ohio.

Jefferson Co., A-4420, A-5775, Brookville Borough, Rose Township. One course reinforced concrete, grading and drainage. \$87,946.08. Contract awarded Minns Bros., Du-Bois, Pa.

Potter Co., A-5379, Genesee Township. Bituminous surface coated macadam surface course, grading and drainage. \$34,353.76. Contract awarded Paul R. Beals, Buffalo, N. Y.

Wayne Co., A-5559, Preston and Mt. Pleasant Townships. Bit. surface treated macadam surface course. \$149,867.92. Contract awarded Bryant and Kohl, Inc., Wilkes-Barre, Pa.

Westmoreland Co., A-5561, 5562, 5563, 5564, Penn and Manor Boroughs, Penn and Hemp-veld Townships. One course reinforced concrete, \$143,261.65. Contract awarded Wind-ber Const. Co., Inc., Windber, Pa.

New Jersey Construction News

Post Office Building, North side Market street, between Fourth and Fifth streets, Camden, N. J., \$1,100,000. Architect, James A. Wetmore, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Site selected. Plans in progress.

Laundry Building (add.), Burton and Southard streets, Trenton, N. J., \$15,000. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Sanitary Cleaning & Dyeing Co., Inc., on premises. Brick, 30x60 feet. Preliminary plans in progress.

Residences (35), Bucks County, Pa. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Joseph Krumacker, North Broad and Perry streets, Trenton, N. J. Brick, 2 stories, 37x14 feet, slag roof, hardwood floors, electric light, plumbing. Plans in progress.

Bridge (rebuilding), across Greater Egg Harbor Bay, between Somer's Point and Ocean City. Owners, State Road Board, care of Lee R. Grover, Secretary of Highway Commission, Trenton, N. J., and Mayor Joseph G.

Campion, Ocean City, N. J. Work contemplated in 1929.

Apartment House, 236 South Connecticut avenue, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City, N. J. Owner, Benjamin Friedberg, 240 South Connecticut avenue, Atlantic City, N. J. Plumbing, partitions, tile work, general interior alterations. Owner taking sub-bids.

Residence and Store (add. and alts.), 24 South Kentucky avenue, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City, N. J. Owner, A. B. Allen, on premises. Brick, irregular size, maple floors, tile work, copper sash, plate glass, interior alterations. Owner will build.

Residences (3), Margate City, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City, N. J. Owners, Mahoney Construction Co., Pleasantville, N. J. Frame, 2½ stories, stucco, brick veneer, 23x39 feet, 20x45 feet, composition and slate roof, hardwood floors, electric light, tile work. Owners will build.

Residence and Garage, South Swarthmore avenue, Atlantic City, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owner, Carl W. Brown, 105 South Swarthmore avenue, Atlantic City, N. J. Brick, frame, stucco, 2½ stories, 27x43 feet, slate roof, maple floors, hot water heat, electric light, tile work. Owner will build.

Office Building (add. and alts.), Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City Electric Co., 1600 Pacific avenue, Atlantic City, N. J. Brick, steel, 5 stories, 35x100 feet, concrete roof and floors, hollow tile, electric light (heating, plumbing and electric reserved), tile, marble, steel sash. Architect taking new bids due January 19th.

Office Building and Show Room, Northwest Corner Market and Washington streets, Gloucester, N. J. Architect, Louis H. Goettelman, 402 Chestnut street, Brooklawn, N. J. Owners, J. R. Quigley Co., Market street and W. J. & S. S. Railroad, Gloucester, N. J. Brick, concrete, structural steel, 2 stories, pasement and tower, 81 feet 6 inches x 70 feet, slag roof, maple floors, steam heat, electric work, ornamental iron, copper bulks, iron work. Architect taking bids due January 18th at noon.

Well Pump and Pump House, Jamesburg, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department Institutions and Agencies, William J. Ellis Commissioner, State House, Trenton, N.

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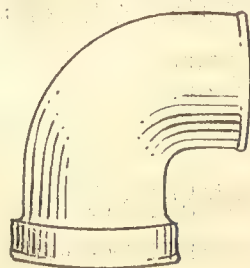
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J., and New Jersey Reformatory for Boys, Mr. Mills, Jamesburg, N. J. Owners taking bids due January 29th.

Garage, Twelfth and Federal streets, Camden, N. J., \$3,500. Architect, private plans. Owners, Sun Oil Company, Finance Building, Philadelphia. Brick, 1 story, 33x55 feet, slag roof, hot water heat, electric light. Permit issued.

School, Collingswood, N. J. Architect, F. Herbert Radey, 428 Market street, Camden, N. J. Owners, School District of Collingswood, H. M. Restrict, 404 Cedar avenue, Collingswood, N. J. Brick, steel, 2 stories and basement, 41x67 feet, maple and cement floors. Low bidder: Hugh B. Miller, Edgewater Park, N. J., \$35,000; heating, Harry Knecht, Collingswood, N. J., \$6,600; plumbing, Harry Knecht, Collingswood, N. J., \$1,345; electric, Fred Boehm, West Collingswood, N. J., \$1,040.

School, Collins Tract District, Pensauken Township, N. J. Owner, Pensauken Township School Board, Pensauken Township, N. J. Work contemplated.

Schools (New laboratories), Collins Tract, Jordantown and Homestead Schools, Pensauken Township, N. J. Architect, Walter Mayo, Pensauken, N. J. Owner, Pensauken Township School Board, Pensauken, N. J. Plans in progress.

Library Building, N. E. Part of Campus, Princeton, N. J. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owner, Princeton University, J. Grier Hibben, President, on premises. Stone, fireproof, steam heat, slate roof, electric light. Owner taking bids from Matthews Const Co., Princeton, N. J.

McCosh Hall (class room addition), rear of University Chapel, Washington Road, Princeton, N. J. Architect, Name withheld. Owner, Princeton University, Princeton, N. J. Stone, fireproof, 3 stories, slag roof. Plans in progress.

Variety Theatre, Stores (3), Offices (5), 7th and Kaighn Ave., Camden, N. J. Architect, H. E. Hall, Merchantville, N. J. Owner, I. Mazer, 1533 Wildwood St., (Variety Amusement Co.,) Camden, N. J. Brick, steel trusses, 2 stories, 75x50x170 feet irregular, slag roof, steam heat, wood beam, cement floors, textured walls, roof ventilators, concrete foundations, hot air and steam heat, electric light. Owner taking sub-bids, work to start at once.

New Jersey Contracts Awarded

Residence, Pleasantville, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic County Water Co., 11 Old Turnpike, Pleasantville, N. J. Brick, 1½ stories, shingle roof, pine floors, electric light. Contract awarded Smith & Rider, Absecon, N. J.

Store, 552 State street, Camden, N. J., \$5,750. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Wood Manufacturing Co., 646 Erie street, Camden, N. J. Brick and block, 1 story, 35x60 feet, slag roof, hot air heat. Contract awarded Leon H. Harrington, 203 Springfield avenue, Merchantville, N. J.

Residence, 1237 North Twenty-seventh street, Camden, N. J., \$3,800. Architect, private plans. Owner, John Berson, care of builder. Block, 2 stories, 14x48 feet, slag roof, warm air heat. Contract awarded Henry F. Bowman, 1047 Beideman avenue, Camden.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief

Clerk, Broad Street Bank Building, Trenton, N. J.

Repairing bridge over main branch of Newton Creek, Connecting Road, Camden Extension, Camden County. Contract awarded F. W. Schwiens, Jr., Co., 90 West street, New York, \$59,934.41.

Route 37, Sec. 3, Lakehurst-Toms River, Ocean County. Contract awarded Fabio Matazzo, 1287 Kaighn avenue, Camden, N. J., \$175,088.67.

Bridges (3) and adjoining road sections, Route 6, Dover Extension Cutoff, Dover, Morris County, N. J. Contract awarded A. Guthrie & Co., Inc., St. Paul, Minn., \$403,690.29.

Route 1 Extension, Secs. 17, 18 and 19, Contract 20, highway from Julia street to Anna street, and from East Grand street to Elizabeth River, Elizabeth, Union County, N. J. Contract awarded Elizabeth Paving Co., Elizabeth, N. J., \$223,513.75.

Store Building, (alts. and add.), 21-25 Broadway, Camden, N. J. Architect, E. J. T. Hoffman, 485 Fifth Avenue, New York. \$20,515. Owners, Schulte-United Co., Inc., 485 Fifth Avenue, New York. New front, new roof, general interior alterations, bond, excavation, shoring, concrete, cement, cement floors, master builders, floor hardener, brick, structural steel, bronze grills, iron window guards, marble, tile, metal lath, plastering, caulking, dumbwaiters, oak and pine floors, copper skylights, metal ceilings, Barrett roof. Contract awarded Minton-Seobell Co., 678 "The Arcade," Cleveland, Ohio.

Office Building (alts. and add.) 702-06 Federal street, Camden, N. J. \$15,000. Architect, private plans. Owner, Raymond L. Warren, 535 Federal street, Camden, N. J. Brick, 2 stories, 16x42 feet, irregular, slag roof, hot water heat. Contract awarded Harry L. Foulkes, 566 Pine street, Camden, N. J.

Building, Rear 2640 Federal Street, Camden, N. J. \$3,500. Architect, Lackey and Hettel, 5 Hudson Avenue, Camden, N. J. Owner, Francis Lynch, 48 South 27th St., Camden, N. J. Block, 1 story, 22 feet 3 in. x 95 feet, slag roof, steam heat, electric work. Contract awarded M. J. Jubanyik, 6th and Penn Sts., Camden, N. J.

Miscellaneous Construction News

Library, East Woodstock, Conn. Architects, Seeburger & Rabenold, 1424 Chestnut street, Philadelphia. Owner, George H. May, The Wellington, Philadelphia. Brick, 1 story, 25x40 feet, slag roof, maple floors. Final plans in progress.

Medical and Dental School, Washington, D. C., \$650,000. Architect, George A. Didden, Bond Building, Washington, D. C. Owners, Georgetown University, Thirty-seventh and O streets, N. W., Washington, D. C. Brick, steel, limestone, 5 stories and basement, 284x100 feet, slate, tile and slag roof, cement floors, cast stone, metal lath, tile work, bond, ornamental iron work. Owners taking bids due January 17th.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Low bidders:

Contract 114, St. George's-State road, 7.66 miles. Old Line Construction Co., Chesterton, Md., \$359,864.

Contract 103-A (superstructure). Newport Bridge. American Cascale Bridge Co., Wilmington, Del., \$72,000.

Contract 104-A (substructure), Milford Bridge. George Shockley, Rehoboth, Del., \$25,000.

Miscellaneous

Contracts Awarded

Restaurant and Office Building, 488 Eighth avenue, New York City. Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, Bickford Lunch, Inc., 362 West Fiftieth street, New York City. Brick, steel, terra cotta, 3 stories and basement, 24x100 feet, slag roof, interior terra cotta, slag roof, hardwood floors, steam heat, electric light, tile and marble work, terrazzo work, bronze doors and windows, cabinet, mirror, kitchen and restaurant equipment. Contract awarded Kuhn, Smith & Harris, 225 West Thirty-fourth street, New York City, who are taking sub-bids.

School, Leipsic, Del. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Engineers, Delaware School Foundation, DuPont Building, Wilmington, Del. Owners, State Board of Public Education, Dover, Del. Contract awarded Houston & White, Millsboro, Del. (Note correction.)

GREATEST VOLUME OF CONSTRUCTION WORK EVER WITNESSED IN THE UNITED STATES DURING A SINGLE YEAR WAS HANDLED DURING 1928

BY D. A. GARBER

General Manager

Associated General Contractors of America, Washington, D. C.

Construction operations in the United States leaped forward during 1928 to establish a record which, beyond logical doubt, represents the greatest volume of building ever accomplished by a nation during any single year in the history of the world.

The expenditure for construction of all types in this country last year may safely be estimated at approximately eight billion dollars. The following estimates for distinct types of construction work handled last year are approximated: general building, five and one-half billion dollars; engineering construction, including public works, one billion dollars, highway construction, one billion dollars, and railway construction, one-half billion dollars.

Expressed in terms of dollars, last year's construction work certainly reached amazing totals. But the full significance of the activities of the construction industry during 1928 cannot be found until the results of a study of shipments and consequent consumption of basic building materials are scrutinized.

Viewed from this angle, perhaps the most impressive feature is found in the fact that 1928 was the seventh consecutive year which eclipsed previous annual totals of construction operations. The constant increase since 1921 has served to place the latest annual total upon a level virtually twice as high as that oc-

cupied by the corresponding figure recorded for 1914.

Ever since 1924, the advent of each new year has found many observers declaring a decrease in volume of construction operations to be imminent. Those who made periodic statements that "the peak has been reached" had their eyes upon the pre-war normal volume of construction.

Meanwhile, those who were in a position more closely to study construction conditions, realized that a "new normal" had been established and that no return to the levels of earlier years was possible.

The "new normal" is mainly the reflection of the new American standard of living attained during the last ten years. Additional influences are found in the increase of population and in the tendency of people to drift toward metropolitan areas.

The year 1928 opened with construction activities almost belying the statements of those who felt that the United States was in a position normally to expend approximately eight billion dollars annually for its new projects calling for buildings, public works, highways and railroads. January of last year showed a volume below that recorded for the same month of 1927. When February, March, April and May indicated small inclination to build up activities to the level held by the same months during the preceeding year, it seemed that the construction industry had "reached its ceiling" after a steady six-year climb.

During the first quarter of 1928, however, orders and shipments relating to construction materials reached a volume which definitely indicated that months of the near future would produce activities that would combine to put the year in the role of a record-breaker.

June found all previous figures for a single month exceeded. A slight decline in July was followed by a rise in August. Then came a sensational spurt which sent the September sky-rocketing to a level which astounded even those most familiar with the industry.

From then on to the end of the year, earlier marks fell before the immense volume of activity. The result was that new records for individual months were established eight times during the year.

Special interest centers in the fact that the autumnal and early winter months found operations fighting hard and successfully against the seasonal declines which in previous years had been thought to be inevitable.

The tendency to reduce the volume of "winter lay-offs" formed but a part of the general inclination to rid the construction industry of wasteful practices.

Broad advances were made toward a more general use of standard contract

forms approved by architects, engineers, public officials and contractors. Application of these forms to construction operations repeatedly kept all parties concerned out of legal entanglements by the simple medium of "making everything clear" before work was begun.

A most important action to give the prospective owner "more for his money" was found in the effort to place the construction industry upon a sound credit basis. Until last year, it was possible for almost any man to become a "builder" overnight by the simple expedient of submitting the lowest bid on any job which he fancied to handle.

Practices which are relics of the chaotic conditions existing in the industry during earlier years long had made it possible for "fly-by-nights" to secure construction materials and equipment without more than a fraction of financial outlay. Both the fields of engineering and building construction found determined assaults made upon the practices through co-operative efforts of all elements of the construction industry. While the necessity of making these assaults had long been realized, it remained for the year 1928 to witness the first general effort to place the second-largest industry of the United States upon a business-like basis.

WHAT THE BUILD-A-HOME-FIRST CAMPAIGN MEANS

By E. A. ROBERTS, *Secretary of the Builders' Exchange and Executive Secretary of the Build-a-Home-First Committee*

One of the objects of the Build-a-Home First Campaign is to simplify the task of home building from the standpoint of the prospective owner. To show the importance of simplification, it may be worth while to review the way building operations are organized in Cleveland, because a thorough understanding is the first step toward a solution.

To begin with, there is no such thing as a company manufacturing homes outright, in the same sense that The White Company makes trucks or The Dangler Company makes stoves. A number of independent organizations work on every building, some furnishing material and some furnishing only erecting labor and skill. The most that can be said for those who deliver a completed job is that they supervise and co-ordinate the work of the various trades. In England, I am told, they have general contractors who hire every kind of labor directly, and, in some cases, own their own supply yards. But in America the subcontracting system is almost universal.

When the lot and the money are ready, the next step is to draw the plans, which is the work of an architect. An architect will plan and supervise a house for a fee of 6% of the cost and it is well worth the money.

A possible alternative is to deal with a house building contractor who provides plans as a part of his service. This usually throws the choice of plan upon the owner and makes him the judge of questions of appearance. To employ an architect on the other hand means more definite help in questions of design. In some cases, the architect draws the plans and lets a single general contract to just such a contractor. In other cases, the architect lets separate contracts and supervises all of them.

This latter plan has been followed in building the educational Model Homes under the auspices of the Build-a-Home First Movement, each of which is in charge of a professional architect.

If a general contractor is chosen, either with or without the supervision of an architect, he usually hires one or more trades directly and sub-contracts the work done by remaining trades. Thus a general contractor in house construction is usually a carpenter or mason contractor to begin with—perhaps both. In this case, he must sublet an excavating contract, a plumbing contract, a heating and ventilating contract, an electrical contract, a lathing contract, a plastering contract, a roofing contract, a painting contract, a mantel and tile contract, a decorating contract, a landscaping contract. There may be others, such as a metal window contract. Some sub-contractors sub-let portions of their work. Thus, lathing may be sub-let by the plasterer, asbestos work by the heating contractor, sewer work by the plumbing contractor, and the recital might be much longer.

Material comes from three principal sources. A lumber dealer furnishes the lumber, wall insulation and certain other specialties. The building supply dealer furnishes brick, cement, plaster, metal specialties—in fact all that is installed by the mason and plasterer. Then there is a variety of hardware. Electrical, plumbing and heating supplies come in a class of materials "furnished and erected" by the sub-contractor.

The point is that an untaught owner who tries to guide every detail of a home building project is facing large possibilities of trouble. The fee of the architect, or the profit of the general contractor—if they know their business and do a good job, is usually well earned.

It must be borne in mind that every concern which furnishes material and every man who labors on your house has a "lien" on your property until his bill or

wage is paid. This operates as a cloud on your title and you can neither secure a permanent loan or make a sale until all liens are removed. This puts a severe penalty on unexpected expenses for which you have not provided. Extras are always a source of friction and every possible item should be anticipated in the specifications.

An irresponsible contractor may collect money due on his contract and neglect to pay for material or labor. In this case, your property is held in pledge until these items are paid—which shows why you should choose responsible contractors and sub-contractors.

Building labor is strictly divided into trades and quite thoroughly organized. One of the rules is that union men may not work on the same job with non-union men. Another rule is that a man does not infringe on a job belonging to another trade (except some brief task of less than an hour and disputes sometimes occur between unions as to which shall do certain work. These are called jurisdictional disputes and cause much expense and delay when they occur.

Perhaps I have dwelt too much on the trouble spots in building. The fact that thousands of fine, attractive homes are built every year is proof that there is a way to carry out a building project, like every other project, with economy and satisfaction.

But the Build-a-Home-First Movement aims to increase both this satisfaction and this economy. One thing we are doing is to issue a booklet with plans and illustrations of our five Educational Model Homes, now under construction. The booklet will contain the exact prices of all contracts and sub-contracts, the amount of the architect's fee, the method of financing—how much down and how much per month.

In other words, the booklet will be a complete guide to the duplication of any of these homes on your own lot. It will not be a theoretical price, but a record of actual experience with names of the architects and contractors. If anything, it should be possible to duplicate these homes for less, since an operation can usually be done more smoothly and economically the second time than the first.

Not everyone will want to duplicate these homes, of course. In fact we may erect a greater variety of models next year. Other architects, different designs, different materials, other price ranges will appeal to some owners. But our Educational Model Homes, with their record of established performance and ascertained cost will remain as a sort of yardstick by which other values can be measured.—*Building Industry*.

WHERE WILL THE NEXT CONFLAGRATION STRIKE?

The San Francisco earthquake scattered fire from stoves and boilers, igniting innumerable buildings, but the type of construction, which in many instances permitted the rapid spread of fire, was chiefly responsible for the worst conflagration on record.

Conditions reported in scores of American cities are so dangerous that a spreading fire could quickly develop into a destructive holocaust.

Who can approach a large city at night, viewing the myriad lights rising tier upon tier, without having his imagination stirred by the beauty of the scene? How different, and how terrifying would be the sight, were the magic lights obscured by a raging fire, the entire horizon illuminated by the lurid glare of the flames! And this is no imaginative picture, for the red plague has visited many American cities. Do thinking citizens ask, "Why"?

When medieval Europe was attacked by disease plagues that depopulated its cities, the cause was found in conditions which the people themselves permitted to exist, but medical science has practically eradicated such scourges. In our own country the American people are largely responsible for today's red plague because building conditions are permitted which breed conflagrations. This statement is substantiated by engineers who have studied all the great fires of the century.

Conflagrations are of two principal types: The first is spread when buildings are exposed to radiated heat or actual flames, as in Baltimore, Maryland, and Chelsea, Massachusetts; the second is spread by flaming brands landing on wooden shingle roofs, as in Augusta, Georgia, Paris, Texas, and Nashville, Tennessee, all of which occurred within a period of forty-eight hours.

In the first type of conflagration mercantile and manufacturing plants are usually involved. Heat from the first burning building ignites adjoining or nearby structures, either by radiation or direct flame, and they in turn transmit the fire to other groups. As the fire gains momentum a wave of heat may develop which will make the heroic efforts of the most efficient fire dept. of little avail. Conflagrations of this nature almost burned out of existence the business districts of Baltimore, San Francisco and Chelsea, Massachusetts, and in many of the larger cities of the country the destruction of a block, or the major portion of two or three blocks, has been of frequent occur-

rence. A fire in Paterson, New Jersey, assumed such magnitude that the fire department could not stop its progress and large portions of the manufacturing section were completely destroyed. In many villages and towns entire business districts have been swept out of existence in a few hours. Beach resorts, also, have been subjected to many destructive fires.

Fires of the second class are due entirely to the hazard of the wooden shingle roof, which is a constant invitation to hot sparks. Flying embers falling upon the highly combustible surfaces of such roofs daily cause small fires throughout the country. When only one or two buildings are involved, or when the fire department can reach the scene quickly, wooden shingle roofs are but slight menace, but if fire occurs in a section where there are many such roofs and a brisk wind is blowing, burning brands may be carried several blocks, simultaneously starting three or four fires on different roofs. As the fire department can not, as a rule, fight all the fires at once, control of the situation is lost and large areas become involved.

Both types of conflagration may be present in individual cases, as at Salem, Massachusetts, and Jacksonville, Florida, where the first extensive spread of the fire was the result of sparks on wooden shingle roofs. Later the heat wave of the conflagration swept everything before it; buildings two and three blocks ahead of the actual fire were ignited by the radiated heat. Under such conditions the most powerful fire department is hopelessly handicapped because no effective work can be done in the direct path of the flames. The best the fire-fighters can do is to narrow the path of destruction.

Two Great Fires

In order to report the lessons learned from the conflagrations of recent years, the engineers of The National Board of Fire Underwriters have made an intensive study of each, with a view to helping those interested in improving conditions. These reports have been placed at the disposal of all communities desiring them. The following comment from the report of the San Francisco conflagration cites as noteworthy lessons in conflagration-fighting, the importance of:

1. Front, as well as rear- and side-window protection.
2. Encouraging a measure of individual fire protection by tenants of buildings.
3. Fire-resistive roofs, roof structures and well-protected skylights.
4. Ample water supply and pressure.
5. A large reserve of hose.
6. Fire apparatus of longer range and

heavier caliber. (This apparatus need not be limited by the same conditions of quick response to alarms as ordinary apparatus.)

7. Restriction of the use of explosives in conflagrations.
8. Hollow tile for fireproof buildings and improved sections, giving greater strength to lower webs.
9. Partitions with a better bracing of tile, and fire-retardant transoms as well as doors.
10. Protection to the steel frame in roof.
11. Good brick laying, and mortar with cement instead of lime.
12. Re-enforced concrete and good engineering in its installation.
13. Adopting standards for column protection.

Defective structural conditions were the outstanding features of this report, and so long as they exist conflagrations may be expected in American cities.

Interesting conclusions were also drawn in the report of the Augusta, Georgia, conflagration. It was found that a fire department was unable to control fire in a building of large area and fair height, in which fire could spread from cellar to roof in less time than was required for the department to respond and swing into effective operation. Among the structural lessons were the necessity of eliminating frame additions to brick buildings, protecting exterior and interior wall openings, enclosing vertical openings, and proper construction of parapets, skylights and dormer windows. The report also stressed the inability of a fireproof building to act as a fire barrier, even if unoccupied, unless equipped with properly protected windows; the danger of shingle roofs and the manner in which they spread fires with an ordinary wind blowing, even when the section was not congested and a number of the buildings were brick with non-combustible roofs; the fact that wide streets did not form a fire break when shingle roofs were present. It was also shown that the fire department required an ample supply of water for effective hose streams under maximum requirements, or that all fire companies must be equipped with pumping engines; that outside aid could not arrive in time to be of material assistance, except in case of a second fire, if the apparatus had to come a hundred miles by train; that storing cotton in the streets not only aided in spreading the fire but hampered the operation of the engines.

Is There Danger of Conflagration Today?

After reading reports of conditions which permitted the great fires of the past to rage, one naturally wonders if similar conditions still exist. Many improve-

ments have been made in building construction, but nevertheless conflagrations could occur in numerous cities today. The engineers of The National Board of Fire Underwriters have not limited their investigations to great fires. For the past twenty years they have visited the larger cities of the United States and reported upon the probability of conflagrations. In this way conditions likely to breed sweeping fires were uncovered and a few examples will show how dangerous some of them are.

The report on a large western city, referring to city blocks reads:

These five blocks are compactly built, as 92 per cent. of the area, not including alleys, contains buildings only one of which is of fire-resistive construction, the remainder being of joisted brick or sub-standard mill; six are of excessive height, ten are of excessive area and most of the remainder are of large area. Windows and floor opening protection is almost completely lacking. Occupancies include department stores, stores and hotels, theaters, and large furniture and hardware stores. Although automatic sprinklers are installed in seven buildings, a fire beyond control in any of these blocks could readily involve neighboring blocks, and because of their central location these five blocks are a menace to the entire congested value district.

In two other blocks conditions are such that a fire in either could involve the entire block.

The report on the shoe district of a New England city stated in part:

Owing to the number of large buildings, often with poorly protected openings, the bad cross and angle exposures and some weak walls, the potential hazard is severe.

The absence of rigid inspection, coupled with the hazardous nature of much of the contents of the building, and the frequent changing of the tenant occupancy, increase the probability of fires. High winds are frequent. The water supply is inadequate and the fire department, though fairly efficient, is undermanned—a dangerous combination. However, automatic sprinklers protect 55 per cent. of the area containing buildings and 101 establishments have sprinkler valve or automatic fire alarm systems. While serious individual or group fires are apt to occur among the factories, the danger of a fire getting beyond control is, on the whole, small.

The commercial district includes a long, narrow block of one to six story, small to excessive area, joisted brick and interspersed frame buildings. Along the river are a few large-area frame structures; along one street are grade floor mercantiles, with offices and dwellings above; other occupancies include a department store and furniture stores. An arcade involving a group of twelve buildings or additions forms an excessive fire area of 47,200 square feet; standard protection at communicating openings, where provided, is of little value, for at two such places fire doors were found blocked open and automatic closing devices were defective. To the east are several frame structures which abut a large area, frame and joisted brick department store. The block has good interior accessibility through numerous alleys, but many buildings extend to the river bank and are inaccessible from that side. Window protection is almost entirely lacking, and mutual exposures are frequent. Fire originating in any part of the block could spread rapidly and once beyond control could easily involve a large part of the block and spread across the street, which is only sixty feet wide, the extent depending upon the direction of the wind.

With few exceptions the engineers found similar conditions throughout the central or more congested mercantile districts and in many of the high-valued manufacturing sections of the larger cities. In buildings of ordinary brick construction the joists and floors were largely of wood. The majority had extensive open-stairways and elevator shafts, which act as flues in case of fire and quickly spread the flames to all portions of the building. Few were provided with protection to windows and other opens in walls, with the result that buildings of lower height or across alleyways or other open space, constitute a direct exposure and permit the ready spread of fire from one building to another. Most American cities have narrow streets, which also add to the probability of rapid spread of fire. Few have sufficient fire-proof construction or automatic sprinkler protection in buildings of large area and hazardous contents materially to reduce the inherent hazard of the district as a whole. As a result, in practically every city the probability of a conflagration depends upon quickness in discovering fire, the rapidity with which the fire department gets into action, and the effectiveness of the fire department and the water supply. Failure in any

one of these elements increases the probability of a spreading fire becoming imminent. An earthquake, as in San Francisco, excessive wind conditions, or a multiplicity of small fires such as occurred recently in Washington, D. C., are all conditions which increase the hazard and make the probability of a conflagration such that no American city can be said to be free from it.

On Guard Against Conflagrations

Any one of the major fire catastrophes suffered by America would have left the devastated city crippled for many a year, while some cities never would have recovered, except for the rebuilding power of stock fire insurance. Then, too, the permanent crippling of a community, especially one where manufacturing and mercantile establishments employ hundreds of people, would have a far-reaching and depressing effect on the economic condition of the country. That is one reason why insurance wields a stabilizing influence.

Following the London fire of 1666, which shook the financial structure of England and was succeeded by almost unbelievable hardship and suffering, stock fire insurance came into existence. Most people probably think of it in the light of paying innumerable ordinary losses which occur every day throughout the country, but it also must provide for rebuilding after a conflagration, without affecting the financial status of the individual companies or the economic condition of the country at large. How can an insurance company endure the sudden drain on its resources incident to a great fire? Stock fire insurance companies maintain a surplus to meet serious situations. Their foresight demonstrated its value throughout the past twenty-five years, for the companies provided the factor of financial stability at the time of great disasters. Without a safeguard of this kind new capital would not be brought into the insurance business and its market would thereby be limited, to the detriment of American industry. The significance of these statements will be appreciated when it is considered that the fires of 1904 in Baltimore and 1906 in San Francisco brought losses of \$40,000,000 and \$300,000,000, respectively, to the insurance companies! Under the present plan of operation and distribution of risks, no catastrophe could shake the soundness or the security of stock fire insurance.

Today the companies need ample surpluses to protect the nation's financial structure. The history of fire insurance demonstrates that surpluses were needed in the past. After studying previous conflagrations and applying the knowledge gained to similar conditions found to exist in various cities of the country, the inevitable conclusion reached is that stock

fire insurance must be prepared to stand as a financial bulwark when disaster threatens the nation's stability and prosperity.—*Safeguarding America Against Fire.*

TREATED WOOD IN MILL CONSTRUCTION

Wood in ordinary building construction not exposed to especially severe conditions has an extremely long life, and in many cases is unaffected by decay after more than a hundred years of service. While this is true of certain portions of every wooden building, there are nevertheless certain portions of many buildings where the wood is quite likely to decay in a relatively short period unless protected by preservative treatment.

Untreated wood resting on masonry or in contact with the earth is especially subject to decay because of the retention of moisture at these points and is also subject to destruction by termites in regions infested by these insects. On the other hand, when used for such purposes as interior finish, ceilings, floors, etc., very long life will be obtained in most cases unless industrial conditions in the building contribute to deterioration of the wood. Such conditions exist in paper and textile mills and in plants and factories of various kinds, where the combination of heat and moisture is bound to have a disastrous effect on untreated wood. The enormous amount of timber required annually for replacements in buildings of this kind could be saved in large part by the use of treated timber.

In the more modern industrial plants of this kind timber treated with one of the standard preservatives—coal-tar creosote or zinc chloride—is being used in considerable quantity today for new construction and to replace decayed untreated timbers, but many plants are apparently unaware of the economic possibilities of such construction. The use of treated timber involves but slight expense over the cost of untreated timber, and this is more than compensated for by the longer life obtained and the freedom from labor costs and interruption of work necessitated by repair work or replacement of decayed timbers.

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

Many a man would do a better job if he didn't know about putty.—Ex.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

ALERTNESS PICKS UP ORDERS

Looking for business and just waiting for business makes the difference between success and a bare living.

The DAILY BUILDING NEWS will tell you where to look and make you most alert in securing business.

BUILDING NEWS PUBLISHING CO.
1530 Chestnut St. Philadelphia.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.

Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.

Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Weil, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIREPROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING-COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
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HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

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Insurance Co. of North America, 1600 Arch St.

Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

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Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Pettit, Frank, Orna. Iron Works,
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Whartenby, Harry A., 1823 Brandywine St., Phila.

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Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Weil, J. H., Co., 1315 Cherry St., Phila.

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Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

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11th & Linden Sts., Camden, N. J.

LUMBER

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Belf Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
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Roman Mosaic & Tile Co., 435 Green St., Phila.

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PLASTER (Colored)

California Stucco Products Co., 1316 Olive St., Phila.

PLASTER BOND

PLASTERERS

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DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

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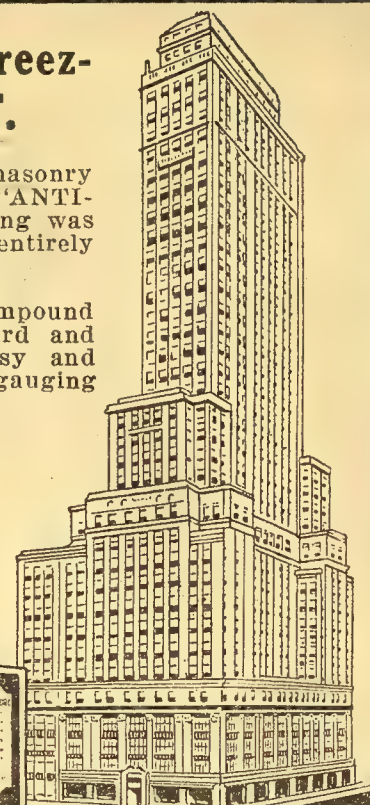
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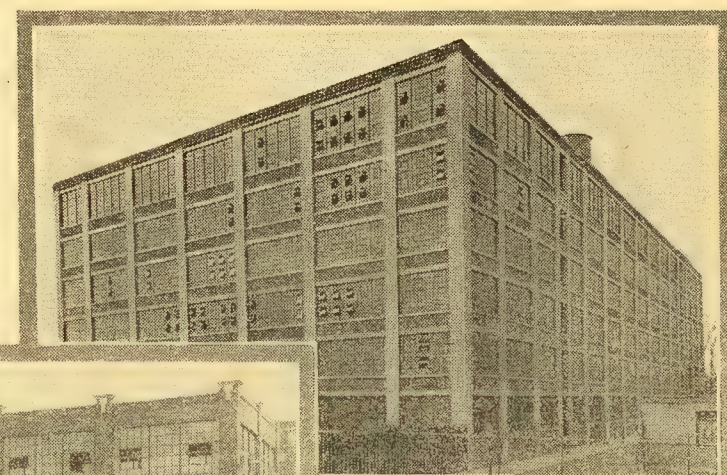
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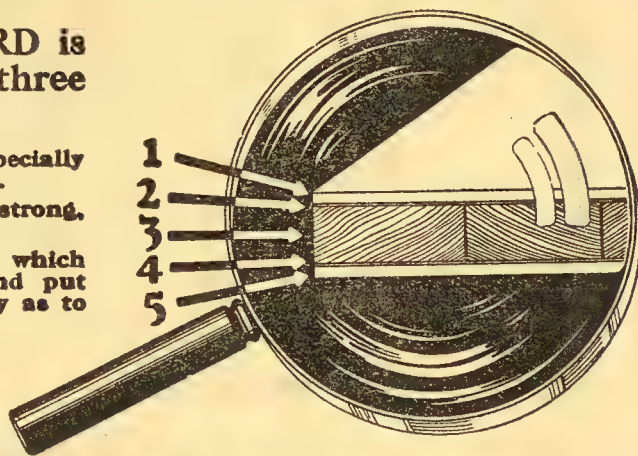


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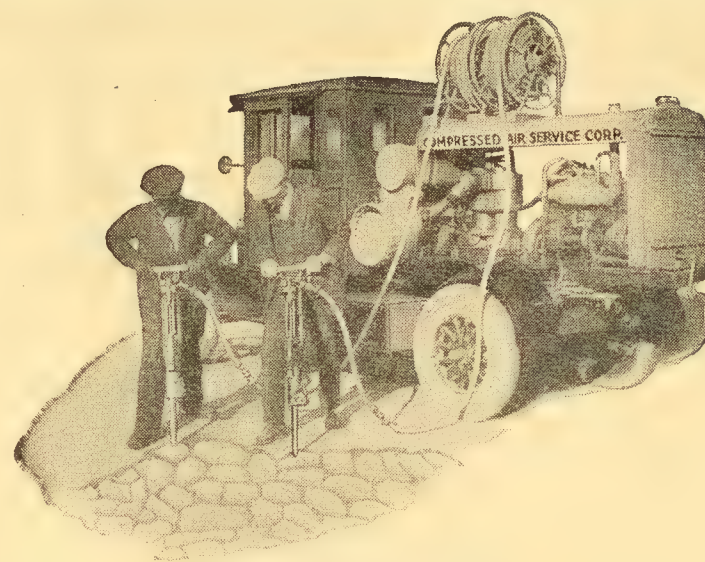
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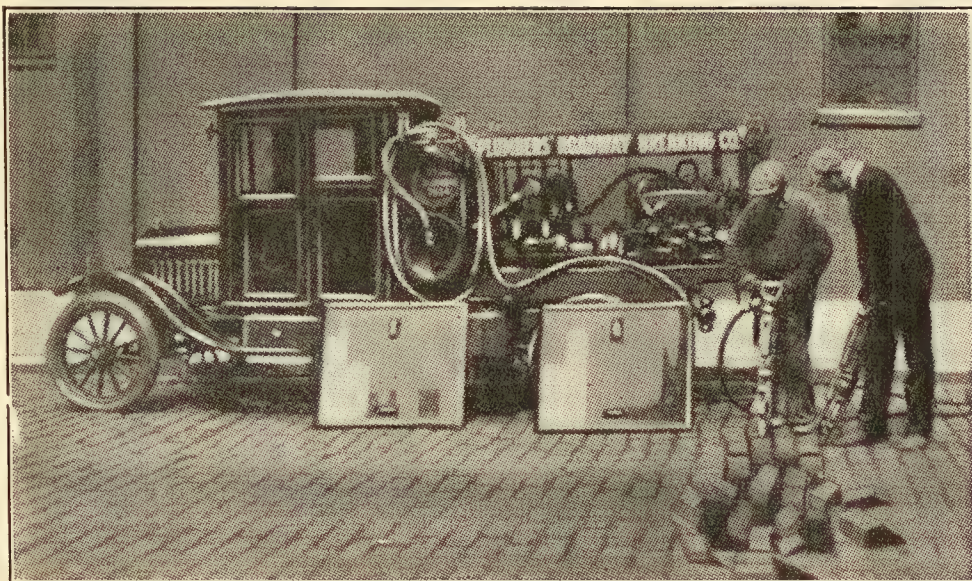
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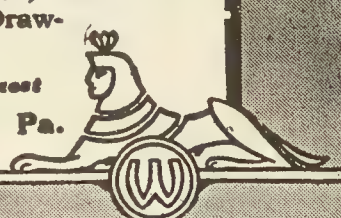
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VOLUME XLIV

Engineering and the Building Trades

PHILADELPHIA

Number 4

January 23, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment Houses, Penna. avenue between 26th street and Girard avenue, \$20,000,000. Architect, Paul Cret, Otis Building, Phila. Owner, Jos. J. Greenberg, Bankers' Trust Building, Phila. Steel, stone, concrete, brick, first unit Parkway Tower, 26th street and Penna. avenue to Aspen street, on lot of 507x326 feet, 26 stories. Sketches drawn.

Building, 7301 Germantown avenue, Mt. Airy, Phila. Architect, C. Z. Klauder, 1429 Walnut street, Phila. Owners, Lutheran Theological Seminary, Rev. C. H. Jacobs, on premises. Stone, 2 stories, sketches in progress.

Apartment House, Northeast corner 49th and Spruce streets, Phila. Architect, David Swartz, 4326 Otter street, Philadelphia. Owners, Itensyn & Weiss (Emerson Co), 4209 Chester avenue, Phila. Brick, stone, steel, concrete, 4 stories and basement, 225x125 feet, slag and slate roof, hardwood and linoleum floors, vapor heat, electric light, tile and marble work. Owners taking sub-bids.

Apartment House, Northeast corner 54th street and Columbia avenue, Phila., \$325,000. Architect, E. S. Haldman, 20th and Estaugh streets, Phila., Pa. Owner, A. Leibovitz, N. American Building, Phila. Brick, steel, limestone, 4 stories and basement, 115 apartments. Owner ready for sub-bids.

Ward Buildings, A and J, Extension of Conversation Hall, Holmesburg, Pa. Architect, P. H. Johnson, Widener Building, Phila. Owner, Phila. Co. Prison, W. H. Heston, 10th and Reed streets, Phila. General construction, plumbing, heating, electric work, refrigeration. Deposit, \$30, refund, \$20. Certified check, 5%. Owner taking bids due Feb. 15th.

Also drilling artesian well in Reed Street Prison.

Church and School, Cottage and Vincent streets, Philadelphia. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Bernard's Roman Catholic Church, Rev. Father Hoolihan, 7141 Cottage street, Philadelphia. Stone, 3 stories. Plans about completed. Architect will be ready for bids in about three weeks.

Residences (2) (alts. to Apartments), Frankford, Philadelphia. Architect, Samuel D. Milner, 4616 Frankford avenue, Philadelphia. Owner, name withheld. Hot water heat, electric light, plumbing, plastering, painting. Architect taking sub-bids.

Residence, Torresdale, Pa., \$8,000. Architect, Samuel D. Milner, 4616 Frankford avenue, Philadelphia. Architect, name withheld. Frame, 2½ stories, 28x38 feet, wood shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will sub-let.

Theatre, Sixty-sixth avenue and York road, Philadelphia. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, steel, 135x392 feet, cement floors, electric light. Architects will build on time and material basis and are taking sub-bids.

Stores and Offices, Southeast Corner Broad and Tasker streets, Philadelphia. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Mastbaum Brothers & Fleischer, 1424 South Penn Square, Philadel-

phia. Lessees, Philadelphia Gas Works Co., Broad and Arch streets, Philadelphia. Aqua stone, brick, 2 stories and basement, 38x114 feet, built-up roof, terrazzo floors, vapor heat, electric light. Plans in progress. Architects will be ready for bids in three weeks.

Bank Building (alts. int.), Southwest Corner Broad and South Penn Square, Philadelphia. Architect, private plans. Owners, Plaza Trust Company, John Hendricks, Room 400, Lincoln Building, Philadelphia. General interior alterations, bank fixtures, plastering. Owners will be ready for bids in a few days.

Factory, Bodine and Wingohocking streets, Philadelphia. Engineers, W. P. Cameron Engineering Co., Packard Building, Philadelphia. Owner, Frederick Kaiser, 248 West Wingohocking street, Philadelphia. Brick, 1 story, 40x50 feet, slag roof, cement floors, steam heat, electric light. Engineers will be ready for sub-bids in a few days.

School (wing), Rhawn and Ditman streets, Philadelphia. Architect, Irwin T. Catherine, Board of Education, Nineteenth and Ludlow street. Owners, Board of Education, W. Dicks, secretary; William Rowen, president, Nineteenth and Ludlow streets, Philadelphia. Plans will be ready for bidders January 21st.

Frankford Exchange (alts. and add.), Foulkrod and Leiper streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, Nineteenth and Arch streets, Philadelphia. Brick, limestone, steel, 2 stories and basement, 51x61 feet, slag roof, cement floors, steam heat,

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electric light, metal lath, tile, steel sash, bond, ornamental iron. Architect taking bids due January 25th.

Building (alts. and add.), Bridge and Richmond streets, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owners, Charlese Lennig & Co., Inc., Fred Lennig, president, 222 West Washington Square, Philadelphia. Brick, steel, 2 stories and basement, 36x75 feet, slag roof, cement floors, hot water heat, electric light, painting, glazing, plumbing. Architect taking bids due January 24th at noon.

Restaurant Building, 1813-17 Allegheny avenue, Philadelphia. Architect, Ralph Bencker, Northeast Corner Thirteenth and Chestnut streets, Philadelphia. Owners, Horn & Hardart Baking Co., 204 South Wainock street, Philadelphia. Limestone, Kasota stone, granite, steel, 2 stories and basement, 154x48 feet, bond, concrete and cement work, Master Builders' metallic floor hardener, cement floors, Lapidolith (L. Sonneborn & Sons), waterproofing (Permanent Metallic Waterproofing Co.), waterproofing (Western Waterproofing Co.), structural steel, Straub or Pennsylvania Brick & Tile Co. cinder block, caulking (A. C. Horn-EvAir Tight Caulking Co. or Sterling), built-up roof (Carey or Johns Manville), kalamein doors, roof ventilators, skylights, dampproofing (R. I. W. or Concrete Waterproof Paint Co. or Horn's), plastering, metal lath, Bedford Indiana limestone, granite, Rylytle floors (Drehmann Paving & Const. Co.), asphalt mastic floors, Douglas fir flooring, N. C. pine floors, acoustic-Celotex ceiling, revolving doors (Van Kennel Revolving Door Co.), bronze work, metal toilet partitions, Sanymetal flush type partitions (alts.), sidewalk lift, hardware (Sargent or McKinney), miscellaneous iron work, iron stairs, hollow metal windows, rolled steel sash, hollow metal doors, marble, tile, terrazzo, slate, cork insulation, demolition, excavation, shoring, sheet piling, underpinning, masonry work, foundation walls. Contract awarded Edward Atkins, 249 South Twenty-fourth street, Philadelphia. Structural steel awarded McClintic-Marshall Co., Morris Building, Philadelphia. Plumbing, heating, electric and ventilating reserved. Owners taking bids due January 24th at noon.

Aldine Trust Company Office Building, Southwest Corner Twentieth and Chestnut streets. Architect, A. W. Hall, Fifteenth and Locust streets, Philadelphia. Owners, Richard J. Seltzer, Inc., agents, Fifteenth and Locust streets, Philadelphia. Brick, reinforced concrete, limestone, steel, 2 stories, basement and sub-basement, 83x66 feet, cement floors, architectural terra cotta, tile, marble and terrazzo, bond, demolition, excavation, caisson foundations, cinder block (Penn Building Co.

or National Building Units Corporation), Hydro Seal waterproofing, granite curbs, R. I. W. dampproofing, metal lath, plastering, caulking, tin-clad doors, kalamein doors, steel sash, iron stairs, sidewalk hoist, hollow metal windows (S. H. Pomeroy Co., Inc.), slag roof (Barrett), rolled steel skylights (D. Lupton's Sons Co.), ventilators (Globe or Star), Kernerator incinerator. Architect taking bids due January 24th at noon.

Soda Fountain Plant, Erie avenue, F to G street, Philadelphia, \$1,500,000. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, I. Fischman & Son, Tenth and Allegheny avenue, Philadelphia. Tapestry brick, reinforced concrete, steel, limestone, 1 and 2 stories, 480x375 feet, slag roof, cement floors, architectural terra cotta, metal lath, tile and marble work, bronze work. Plans will include show rooms, auditorium. Plans nearly completed.

Garage, Second and Delancey streets, Philadelphia. Architect, Benjamin Shulman, 1722 Arch street, Philadelphia. Owners, Fox Garage, on premises. Brick, reinforced concrete, 3 stories and basement, 186x70 feet, slag roof, cement floors, steam heat, electric work, rolled steel sash, tin-clad doors, demolition, rolling steel doors, sprinkler system, plumbing. Architect taking bids due as soon as possible.

Store and Apartment, Northeast corner Twenty-fourth and Ridge avenue, Philadelphia. Architects, Penwood & Co., 121 North Broad street, Philadelphia. Owner, Philip Segal, 2403 Ridge avenue, Philadelphia. Brick, steel, limestone, 3 stories and basement 50x36x59 feet, irregular, slag roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Owner taking bids due soon as possible.

Department of Supplies, 312 City Hall, Philadelphia. Owners taking bids due January 24th at noon. Certified check, 5 per cent. Sewer brick, cement, concrete, sand paving, gravel, stone, block filler, penetration asphalt, hot oil, cold patch, rubber-covered copper wire, cable, etc.

Residences (70), Louise, Woolston street, North of Andrews avenue, Philadelphia, \$283,500. Architect, Sherman G. Coates, 1428 Chestnut street, Philadelphia. Owner, Raymond G. Frick, 7100 Woolston street, Philadelphia. Brick, 2 stories, 16x42 feet, hot water heat, electric work, slag roof, oak and yellow pine floors, tile work. Owner will build.

Residences (8), 3335 to 3349 Tilden street, Philadelphia, \$32,000. Architect, private plans. Owner, M. J. McCrudden, 801 Fidelity-Philadelphia Trust Building. Brick, 2 stories, 16x30 feet, hot water heat, electric work, slag roof, oak and yellow pine floors. Permit issued.

Residences (32), North side Sanger street, West of Bingham street, Philadelphia, \$129,500. Architect, private plans. Owner, Lawrence M. Conway, 4150 North Broad street, Philadelphia. Brick, 2 stories, 15x37 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences and Stores (3), South side Harrison street, West of Large street, Philadelphia, \$18,000. Architect, H. Murphy, 4432 Frankford avenue, Philadelphia. Owners, Wakeling Construction Co., 1520 Oxford street, Philadelphia. Brick, 2 stories, 16 feet 8 inches x 60 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Store and Apartment (alts.), 4418 Germantown avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Stephen Haas, Land Title Building, Philadelphia. New front, plate glass, painting, carpentry and mill work, plastering,

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metal ceiling, electric work. Owner taking bids due January 25th.

Residences (66), Rebecca street, Philadelphia. Architect, private plans. Owner, George McCracken, North Philadelphia Bank Building, Philadelphia. Brick, 2 stories, slag roof, hardwood floors, hot water heat, electric light. Owner will build in spring.

Golf Course (add.), Barn (alts. to Golf House), Tacony Creek Park, Philadelphia, Pa. Owners, Fairmount Park Commissioners, 127 City Hall, Philadelphia. Work contemplated.

Manufacturing and Store Building, 1226 Chestnut street, Philadelphia, \$50,000. Ar-

chitects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, L. Jaffe & Son, 1226 Chestnut street, Philadelphia. Brick, 6 stories, 19x100 feet, steam heat. Permit issued.

Commissioners of Fairmount Park, 127 City Hall, Allan Corson, engineer, taking bids due January 29th for demolition of buildings in League Island Park and at the Corner of Second and Filbert streets, Philadelphia.

Day and Zimmerman, 112 North Broad street, Philadelphia, engineers, taking bids due January 26th for equipment delivered at Gratersford, Pa.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Apartment House, Chew and High streets, Philadelphia. Architect, private plans. Owner, name withheld. Brick, cast stone, steel, 4 stories and basement, 100x214 feet, slag roof, cement, oak and yellow pine floors, elevators, metal weather strip, cast stone, ornamental iron, hollow metal doors, tile, marble, metal lath, vapor heat, electric light, carpentry, mill work, demolition, excavation, rubber tile floors, linoleum floors, plumbing, plastering, ventilating system. Contract awarded Chew Manor Apartment Corporation, first floor, 535 Chestnut street, Philadelphia, who are taking sub-bids due as soon as possible.

Restaurant Building, 816 Chestnut street, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Lessees, Linton Lunch, care of I. Demschick, 1703 Chestnut street, Philadelphia. Brick, limestone, granite, steel, 2 stories and basement, 230x20 feet, slag roof, cement floors, plumbing, dampproofing, architectural terra cotta, steam heat, electric light, oil burners, metal lath, tile, marble, steel sash, ornamental iron, bronze, sprinkler, ventilating system, plate glass, bond. Contract awarded A. V. Gilchrist, Drexel Building, Philadelphia.

Building, 837 Callowhill street, Philadelphia. Architect, private plans. Owners, Wilson & Company, care of Mrs. W. S. Force, care of J. Eavenson & Sons, Delaware avenue and Penn street, Camden, N. J. Brick, steel, 3 stories, 70x150 feet, slag roof, cement floors. Contract awarded Farrell-Roth Construction Co., 21 South Forty-sixth street, Philadelphia.

Warehouse, Southwest Corner Randolph and Lombard streets, Philadelphia, \$75,000. Ar-

chitects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, J. Kramer, on premises. Brick, 2 stories, 90x78 feet, 80x68 feet, slag roof, cement floors. Contract awarded H. M. Shandles, 617 Pine street, Philadelphia.

Railroad Siding, Twenty-fifth and Wharton streets, Philadelphia. Engineers, E. R. Morehouse Co., 315 Market street, Camden, N. J. Owners, American Radiator Co., Gloucester, N. J. Reinforced concrete steel, 4 cubic feet long. Contract awarded Golden Contracting Co., 5012 Woodbine street, Philadelphia.

Bank Building (alts.), Broadway and Sycamore streets, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, First National State Bank of Camden, Camden, N. J. Contract awarded Fearn & Voegtlin, 4402 Westfield avenue, Camden, N. J.

Coal Trestle, Twenty-fifth and Morris streets, Philadelphia. Architect, private plans. Owners, People's Coal & Ice Co., Adam App, Twenty-fifth and Morris streets, Philadelphia. Concrete, steel, 100 feet long. Contract awarded Kauffman Const. Co., 20 South Fifteenth street, Philadelphia.

Storage Building, Southwest Corner Unity and Eliza streets, Philadelphia, \$7,000. Architect, private plans. Owners, Ederer Thread Co., on premises. Brick, 1 story, 48 feet 8 inches x irregular, slag roof, electric light. Contract awarded Wintz Brothers, 1618 Sellers street, Philadelphia.

Repair Shop (alt.), Southeast Corner Twenty-ninth and Clearfield streets, Philadelphia, \$3,500. Architect, private plans. Owners, DeAndrea & Durkin, Southeast Corner Twenty-

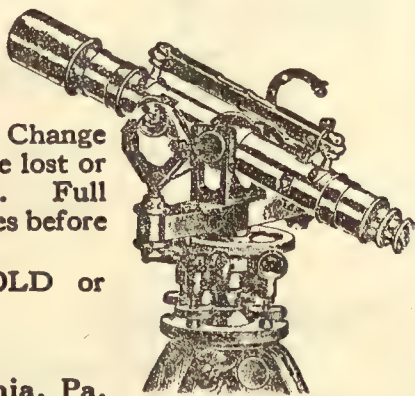
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ninth and Clearfield streets. General interior alterations. Contract awarded E. Clifford Durrell, 1713 North Twenty-fourth street, Philadelphia.

Bakery (add.), 905-09 North Third street, Philadelphia, \$2,500. Owners, New Model Baking Co., on premises. Brick, 1 story, 20x73 feet, carpentry and mill work, electric work. Contract awarded F. Simmonds, 259 South Thirty-third street, Camden, N. J.

Gasoline Station, Ninth and Germantown avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Stephen Haas, Land Title Building, Philadelphia. Brick, stucco, 1 story, 21x38 feet, irregular, slag roof, cement floors, cast stone, electric light. Contract awarded F. V. Radomski, 4239 North Sixteenth street, Philadelphia.

Gas Station, Northeast Corner Sixth and Sedgley avenue, Philadelphia, \$3,000. Architect, private plans. Owners, Zip Service Station, Thirty-third and Walnut streets, Philadelphia. Brick, 1 story, 17 feet 6 inches x 8 feet. Contract awarded Edward C. Haldeman, Twentieth and Estaugh streets, Philadelphia.

Sewer Work. Owners, Department of Public Works, Bureau of Engineering and Surveys, Philadelphia. Contracts awarded: H street, from Wyoming avenue to Ramona street, Philadelphia, Donato Delise, 4842 North Leithgow street, Philadelphia, \$16,235. Richmond street, from Butler to Wheatshaf lane, Philadelphia, Donato Delise, 4842 North Leithgow street, Philadelphia, \$7,619. Tioga street, from Rockland to Allen street, Philadelphia, McCool Construction Co., 5033 Duffield street, Philadelphia, \$3,856.

Office Building, 17th and Sansom streets, Phila. Architect, A. W. Hall, Southwest corner 15th and Locust streets, Phila. Owner, Samuel T. Hall, Southwest corner 15th and Locust streets, Phila. Brick, reinforced concrete, steel, 13 stories and basement, 80x36 feet, elevators (2), sidewalk elevator (1), steam heat, radiators (American or equal), demolition, granite, curbs and steps, bond, gypsum block partitions, limestone, metal lath, plastering, marble and tile work, tin clad door, kalamein doors, ornamental iron work, electric work, cement floors, built-up roof, plumbing, wrought iron pipe (Natural tube or equal), brass pipe (Balto Tube Works or equal), asbestos pipe covering. Contract awarded Wark & Co., 1600 Walnut street, Phila.

crete, steel, 13 stories and basement, 80x36 feet, elevators (2), sidewalk elevator (1), steam heat, radiators (American or equal), demolition, granite, curbs and steps, bond, gypsum block partitions, limestone, metal lath, plastering, marble and tile work, tin clad door, kalamein doors, ornamental iron work, electric work, cement floors, built-up roof, plumbing, wrought iron pipe (Natural tube or equal), brass pipe (Balto Tube Works or equal), asbestos pipe covering. Contract awarded Wark & Co., 1600 Walnut street, Phila.

Pennsylvania Construction News

Tobacco Warehouse, North Charles street, Red Lion, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, Charles A. Rost Co., Red Lion, Pa. Owners taking bids due Feb. 2nd, before noon.

Fraternity House, Gettysburg, Pa., \$35,000. Architect, C. J. Lappley, Parkside building, Harrisburg, Pa. Owners, Phi Kappa Psi Ewn Fraternity, Harrisburg, Pa. Preliminary plans in progress.

Factory, Frackville, Pa., \$150,000. Owner, George Burchell, 15 West Frack street, Frackville, Pa. Work contemplated.

Residence (alts. and add.), Paoli, Pa. Architect, Carl A. Ziegler, 1912 Walnut street, Phila. Owner, A. E. Pfahler, Paoli, Pa. Architect taking bids due Jan. 30th.

Sunday School, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, First Presbyterian Church, Rev. Walter Edge, 140 East Orange street, Lancaster, Pa. Fireproof, 3 stories, 80x160 feet, composition roof, maple floors, hollow tile, roof ventilators, steel skylights, metal lath, electric light. Plans in progress.

Residence (alts. and add.) to Store and Office, Lancaster, Pa. Architect, H. Y. Shaub, 20 1/2 North Queen street, Lancaster, Pa. Owner, name withheld. Brick, 1 story add., 30x40 feet, slate roof, oak floors, vapor heat, electric light, tile and marble, general interior alterations, casement windows. Plans in progress.

School, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, care of Rt. Rev. P. R. McDevitt, 111 State street, Harrisburg, Pa., and Rev. H. S. Christ, 440 St. Joseph street, Lancaster, Pa. Fireproof, 2 stories and basement, 85x220 feet, composition roof, maple floors, hollow tile, safety treads, roof ventilators, electric light, metal lath, steel sash and skylights. Architect will be ready for bids in about six

weeks. Plans in progress.

Country Club (add.), Plymouth Meeting, Pa. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owners, Plymouth Meeting Country Club, A. T. Eastwick, president, care of James Lees Sons, Bridgeport, Pa. Stone, 2 stories add. Preliminary plans in progress.

Factory (fire repairs), Bristol, Pa. Engineers, George Tomlinson & Son, 1713 Sansom street, Philadelphia. Owners, Superior Zinc Corporation, care of engineers. Brick, 2 stories, 80x32 feet, slag roof, cement floors. Plans in progress.

Stores and Apartments (2), Clifton Heights, Pa. Engineer, M. J. Reiser, Woolworth Building, Lansdowne, Pa. Owner, L. Halfpenny, care of manager. Brick, 2 stories, 25x75 feet, 15x75 feet, slag roof, pine floors, hot water heat, electric light, copper bulks. Plans in progress.

Junior High School, Phoenixville, Pa., \$350,000. Owners, Phoenixville School Board, Phoenixville, Pa. To contain gymnasium, swimming pool and auditorium. Site selected. Work contemplated.

School, near Ephrata, Pa., \$40,000. Architect, H. Ray Heckman, Baer Building, Reading, Pa. Owners, Ephrata School Board, Benjamin John, president, Ephrata, Pa. Plans in progress.

Fraternity House, College avenue, Lancaster, Pa., \$40,000. Architect, J. W. Minick, 701 Telegraph Building, Harrisburg, Pa. Owners, Lambda Chi Alpha Fraternity, Woolworth Building, Lancaster, Pa. Plans in progress.

Police Station and Fire House, Wilkes-Barre, Pa. Architects, Innes & Levy, 176 South Main street, Wilkes-Barre, Pa. Owners, City of Wilkes-Barre, Daniel Hart, Mayor, Wilkes-Barre, Pa. Plans in progress.

Memorial Chapel, Harrisburg, Pa., \$50,000. Architect, W. W. Witman, 20 South Third street, Harrisburg, Pa. Owner, name withheld. Preliminary plans in progress.

High School, Ringtown, Schuylkill County, Pa., \$100,000. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Ringtown School Board, Ringtown, Pa. Fireproof, 2 stories. Architects selected.

Chain Store, State street, Media, Pa. Engineer, M. J. Reiser, Woolworth Building, Lansdowne, Pa. Owner, Charles Green, care of engineer. Brick, steel, stone, 2 stories, 30x75 feet, bar joist, slag roof, plastering, mill work, pine floors, hot water heat, electric light, copper bulks. Plans in progress.

Fraternity House, Lancaster, Pa. Architect, J. W. Minick, Telegraph Building, Harris-



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burg, Pa. Owners, Lambda Chi Alpha Fraternity, Woolworth Building, Lancaster, Pa. Brick, 2½ stories, 60x25 feet, 20x30 feet, slate roof, oak floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Harrisburg, Pa. Architect, B. E. Starr, 7A South Second street, Harrisburg, Pa. Owner, R. B. Starr, care of architect. Stone, 2½ stories. Sketches in progress.

Mortuary and Baptist Chapel (add.), Norristown, Pa. Architect, E. T. Boggs, 225 South Sixth street, Philadelphia. Owners, St. John's Church, Rev. James M. Niblo, Norristown, Pa. Alterations and additions, new altar windows, etc. Plans in progress.

School (add.), South Lebanon, Pa. Architect, Harvey T. Hauer, Lebanon, Pa. Owners, Lebanon School Board, Miles Horst, secretary, Route No. 1, Lebanon, Pa. Preliminary plans in progress.

School, Stoney Creek Mills, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Lower Alsace Township School District, H. Rothermel, president, Stoney Creek Mills, Pa. Brick, steel, 2 stories and basement, 87x53 feet, 9x2 feet, slag roof, maple floors, safety treads, waterproofing, electric light. Plans in progress.

Administration Building, Fort Washington, Cumberland County, Pa., \$800,000. Owners, Beekley College, Charles R. Beekley, 19 South Second street, Harrisburg, Pa. Architect to be announced shortly. Bids will probably be taken within the next six weeks.

Sales and Service Station (add.), 48 Baltimore avenue, Lansdowne, Pa. Engineer, M. J. Reiser, Woolworth Building, Lansdowne, Pa. Owner, Minnie Stein, care of engineer. Brick, 1 story, 28x76 feet, 15 feet 6 inches x 71 feet, steel joist, slag roof, cement floors, steam heat, electric light, metal sash, stone foundations, aluminum painting. Plans in progress. Engineer ready for general and sub-bids.

Residence, Montgomery avenue and Spring Mill road, Villa Nova, Pa. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, Thomas E. Hare, 919 Walnut street, Philadelphia. Stone. Architect will be ready for bids in two weeks.

Residence and Garage, Wyomissing, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, care of architect. Stone, 2½ stories, 34x43 feet, 25x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile, marble, steel sash. Architect will take bids in one week.

High School, Cressona, Pa. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa., and Pottsville, Pa. Owners, Cressona School Board, W. Moyer, secretary, Cressona, Pa. Fireproof, 1 story, 114x83 feet, Carey roof, maple floors, hollow tile, safety treads, waterproofing and dampproofing, iron stairs, bond, fire doors, metal sash, metal lath (heating, electric and plumbing reserved). Owners will be ready for bids in two weeks.

Hotel (alts.), Fourth and State streets, Hamburg, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owners, American Tourist Hotel, A. A. Lenhart, Hamburg, Pa. General interior alterations, partitions, tile work, linoleum floors. Owners will build.

Residence, Womelsdorf, Pa. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owner, Jacob H. Mays, Womelsdorf, Pa. Stone, 2½ stories, 61x31 feet, shingle roof, maple floors, hot water heat (heating, plumbing and electric reserved), tile work. Architects taking bids due January 25th.

Store, Hazleton, Pa. Architect, B. E. Starr, 7A South Second street, Harrisburg, Pa. Owner, A. Jacobs, Riverview, Harrisburg, Pa. Stone, semi-fireproof, 2 stories, 150x34 feet, slag roof, hardwood floors, metal ceilings, steel sash, tile work, electric light. Architect taking bids due January 25th.

High School, Millerton, Pa., \$35,000. Architect, W. D. Shollenberger, 11 West Fourth street, Williamsport, Pa. Owners, Jackson Township School District, E. W. Smith, president, Millerton, Pa. Brick, 1 story. Owners taking bids due March 4th, at 8 P. M.

Church Building (fire repairs), Wyncote, Pa. Owners, All Hallows Church, Rev. C. C. Silvester, Greenwood and Bent road, Wyncote, Pa. Roof repairs, interior renovation, new organ, etc. Owners, care of Building Committee, taking bids.

Sidewalks, Curbs and Gutters, Ridley Park, Pa. Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Ridley Park, N. E. Hoopman, Burgess, Ridley Park, Pa. Certified check, \$50. Owners taking bids due February 12th at 8 P. M.

Garage and Service Station, Allentown, Pa. Architects, Jacob & Everett, Commonwealth Building, Allentown, Pa. Owner, Henry B. Schadt, 1048 Hamilton street, Allentown, Pa. Reinforced concrete, brick, cast stone, steel, 6 stories and basement, 180x135 feet, demolition, excavation, bond, cement floors, integral waterproofing (Truseon, Aquabar, A. C. Horn, Master Builders' or equal), floor hardener (Truseon, Lapidolith or Aquabar), concrete roof, cast stone (Ecomony, Formigli, Onondaga or Romberger), caulking (Arco, Sterlastic), hollow tile, miscellaneous iron work, iron stairs, ladders, area gratings (Iromy Vesabledge Safesteps), kalamein doors, tin-clad doors (Richmond Fireproof

Door Co. or equal), elevator doors and enclosures (Art Metal Construction Co. or Tyler or Dahlstrom Metallic Door Co., Metal Door & Trim Co.), steel sash (Fenestra or Truseon or equal), steel rolling doors (Kennea Manufacturing Co.), garage doors (General Power Door Co. or equal), metal store fronts, bronze work, bronze store fronts, metal louvres (Ventilouvre Co. or equal), roof ventilators (Royal Ventilator Co. or equal), dumbwaiter (Chelsea Elevator Co.), Barrett specification roof, waterproofing Barrett's Hydrown Pain or equal), metal lath, plastering and dampproofing (Aquabar or equal), metal lath, wall finish (Texture or Artercraft or equal), ornamental plaster, terrazzo, marble and tile work, linoleum floors (Armstrong or equal), wood block floor, elevator equipment, elevator allowance \$400 (Otis or A. B. C.) (plumbing, heating, electric work separate bids). Architects taking bids due January 30th at noon.

Residences (52), Ridley Park, Pa. Architect, Charles H. Donehower, 1620 Walnut street, Philadelphia. Owner, Walter A. Stinsman, 2934 North Nineteenth street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans about completed. Architect will be ready for sub-bids in a few days.

Residences (88), Yeadon, Pa. Architect, private plans. Owner, David Rader, 5415 Florence avenue, Philadelphia. Stone, brick, hollow tile, stucco, 2½ stories, various sizes, shingle and slate roof, hardwood floors, central heat, electric light, tile work. Work contemplated. Owner will build first unit in spring.

Pennsylvania Contracts Awarded

Residence (alts.), Villa Nova, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Phila. Owner, Charles J. Rhoads, Villa Nova, Pa. Interior alterations to library. Contract awarded M. N. Croll, St. Davids, Pa.

SEPTIC TANKS

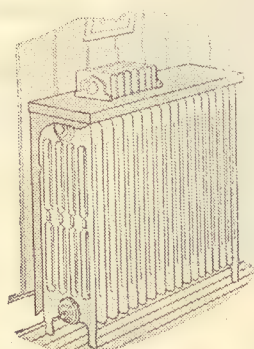
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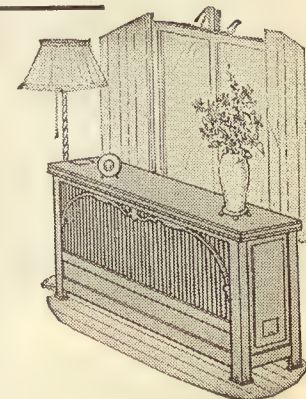
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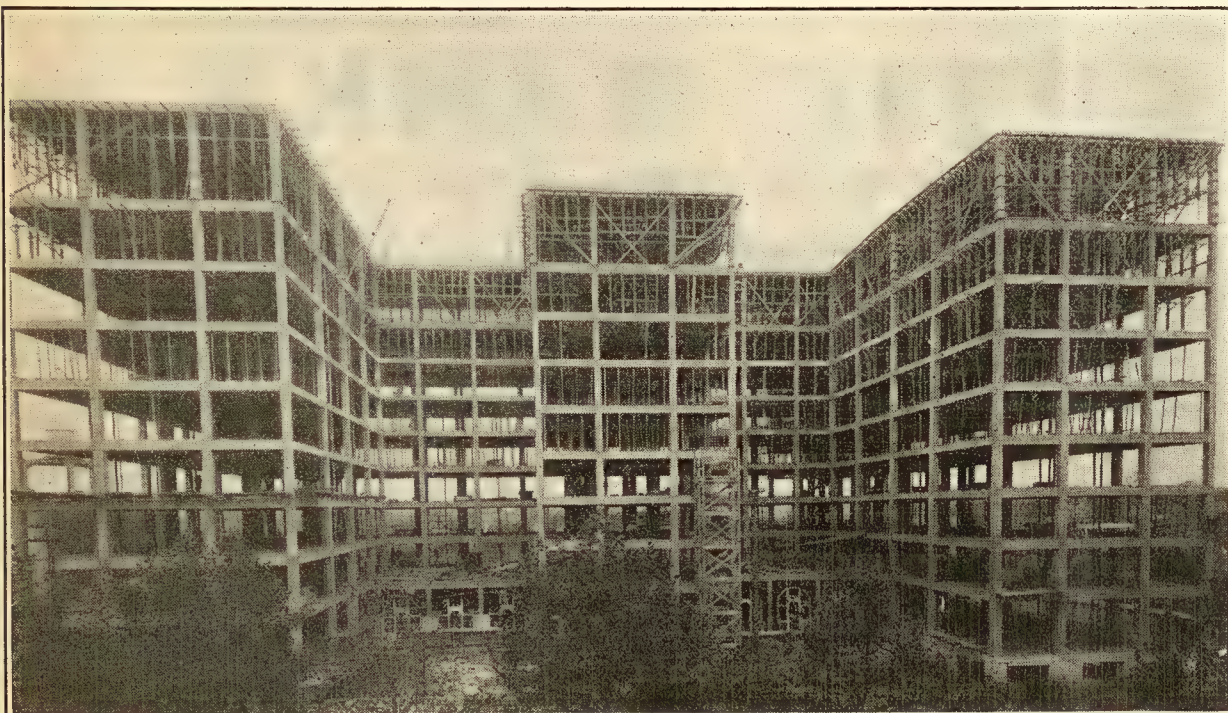
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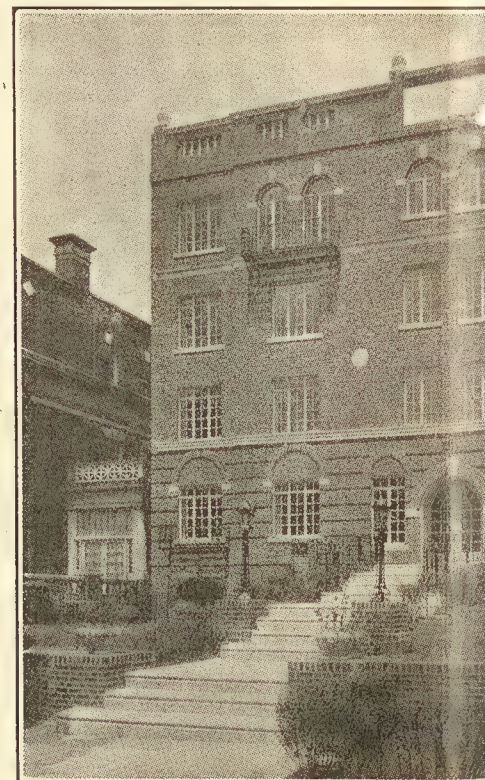
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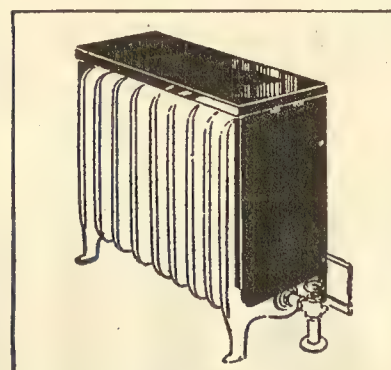
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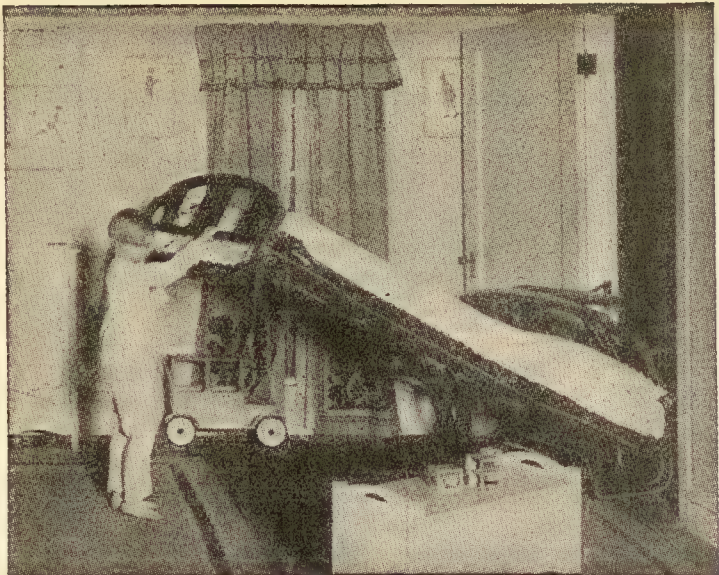
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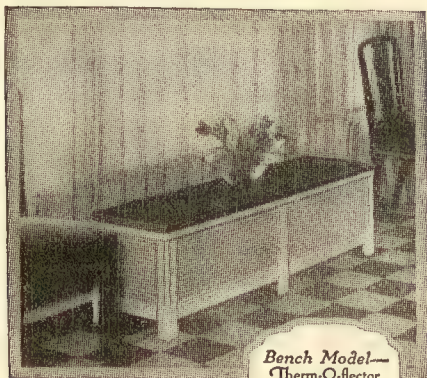
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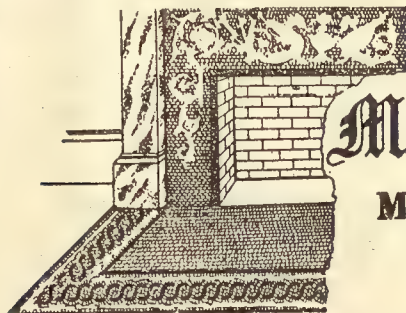
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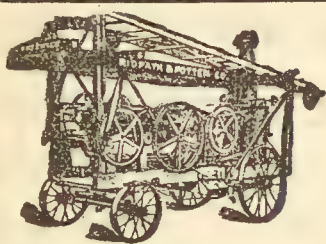
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School, Thirteenth street, Reading, Pa. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Reading School Board, O. B. Heim, Eighth and Washington streets, Reading, Pa. Fireproof, 2 stories, 65x257 feet, built-up roof, mastic floors, safety treads, roof ventilators, waterproofing and dampproofing, bronze work, iron stairs, bond, tile, terrazzo, fire doors. Contract awarded J. C. Snyder, Mechanics' Trust Building, Harrisburg, Pa., \$201,777; plumbing, Corbit Brothers, 147 North Fifth street, Reading, Pa., \$13,490; heating, Wasner & Reddig, 206 North Sixth street, Reading, Pa., \$29,500; electric, Conestoga Elec. Co., 31 North Queen street, Lancaster, Pa., \$8,558.

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Continuation School, Reading, Pa. Architect, A. F. Smith, 811A Penn street, Reading, Pa. Owners, Board of Education, O. B. Heim, Eighth and Washington streets, Reading, Pa. Brick, reinforced concrete, steel, 3 stories and basement, 162x90 feet, built-up roof, cinder block, floor hardener, metal lath, cement floors, marble, terrazzo, casement windows, composition floors. Contract awarded W. C. Fritz, 302 North Eleventh street, Reading, Pa., \$177,390; plumbing, Wasner & Reddig, 206 North Sixth street, Reading, Pa., \$15,285; heating, Corbit Brothers, 147 North Fifth street, Reading, Pa., \$34,490; electric, Conestoga Elec. Co., 31 North Queen street, Lancaster, Pa., \$10,142.

Beaty School, Warren, Pa., \$249,000. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Warren School Board, W. L. Clinges, secretary, Warren, Pa. Steel, brick, reinforced concrete, 2 stories, 210x100 feet, 50x100 feet, slate roof, concrete, yellow pine and maple floors, safety treads, tile, marble, steel sash and skylights. Contract awarded Wilson Construction Co., Johnstown, Pa.

Men's Dormitory Group (second unit), State College, Pa. Architect, Charles Z. Klauder, 1428 Walnut street, Philadelphia. Owners, Penn State College, State College, Pa. Brick, reinforced concrete, steel, limestone, 4 stories and basement, 195x42 feet, bond, cement work, excavation, flagstone, limestone, mill work, kalamein doors and windows, dampproofing, metal lath, membrane waterproofing, terrazzo and marble, slate roof, iron stairs, area gratings, bronze, steel doors, steel enclosures, plumbing. Contract awarded William R. Dougherty, 1608 Sansom street, Philadelphia.

Church (alts. and add.), Reading, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, First Reformed Church, Rev. D. J. Wetzel, 611 Washington street, Reading, Pa. Brick, 2 stories and basement, 30x34 feet, metal roof, yellow pine floors, electric light, tile work, steel sash, general alterations. Contract awarded C. H. Schlegel, 528 Washington street, Reading, Pa.

Store and Apartments (add. and alts.), 42 North Fourth street, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Auto Parts Co. of Reading, Pa., 16 South Fourth street, Reading, Pa. Brick, steel, 4 stories, 100x41 feet, slag roof, tile, concrete and linoleum floors, tile work, steel sash and skylights, kalamein doors (plumbing, heating and electric reserved). Contract awarded D. H. Hunter, 825 Mulberry street, Reading, Pa.

Restaurant (alts. and add.), 6924 Market street, Upper Darby, Pa. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owners, Linton Lunch, 655 North Broad street, Philadelphia. Brick, steel, limestone, 2 stories, 24x80 feet, slag roof, rubber tile and mastic floors, electric light, tile work, bronze work. Contract awarded M. Katz, 5002 North Hutchinson street, Philadelphia.

Residence (add.), Ardmore, Pa. Architects, Stewardson & Page, 315 South Fifteenth

street, Philadelphia. Owner, E. B. Leisenring, Ardmore, Pa. Stone, stucco, hollow tile, 2½ stories and basement, 27x53 feet, shingle roof, oak and pine floors, hollow tile, metal lath, ornamental iron. Contract awarded Frank E. Wallace, 337 South Camac street, Philadelphia.

Stores, Apartments and Garages (6), Church road and Whitby avenue, Yeadon, Pa. Architect, private plans. Owner, Clarence E. Fox, 6914 Market street, Philadelphia. Brick, limestone, 2 stories, 20x80 feet, garages, 10x18 feet, slag roof, hardwood and cement floors, central heat, tile work. Contract awarded August Wright, 123 Coulter avenue, Ardmore, Pa.

Willow Grove Hospital and Power House, Willow Grove, Pa., \$500,000. Architect, William L. Charr, 414 Victory Building, Philadelphia. Owners, Willow Grove Hospital and Sanitation, Inc., care of architect. Fireproof construction, steel, concrete, stone, 4 stories, 150x170 feet, brick, slag roof, composition floors, hollow tile, elevators, safety treads, metal weather strip, waterproofing and dampproofing, flagstone, cast stone, blue stone, brick stacks, wall finish, incinerator, steam heat, oil burners, electric light, tile work and marble, rolled steel and hollow metal sash, fire kalamein doors, bond, floor hardener, iron stairs, soundproofing, casement windows, ornamental iron work, brass pipe, wrought iron pipe, area gratings, cinder concrete block. New plans in progress ready for bids January 24th. Contract awarded Guardian Construction Co., 1724 North Franklin street, Philadelphia.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Dauphin County, Route 617, Susquehanna Township, Paxtang Borough. Contract awarded H. A. Kline, Penbrook, Pa., \$18,706.16.

Montgomery County, A-5463, Upper Dublin and Abington Townships. Contract awarded Mignatti & Whelan, 6526 North Sixth street, Philadelphia, \$89,840.28.

New Jersey Construction News

Hotels and Apartment Houses, Ocean avenue, Asbury Park, N. J., \$40,000,000. Owners, Syndicate, care of Dwight P. Robinson, 125 East Forty-sixth street, New York. Brick, steel, stone. Work contemplated. Preliminary plans in progress.

Sewage Treatment Plant and Out Fall Sewers, Erlton District, Delaware Township, N. J. Engineers, Remington & Vosbury, Camden, N. J. Owners, Delaware Township Commissioner, Mrs. W. Wermuth, secretary, Erlton, N. J. Bond. Deposit, \$25, refund \$10. Certified check, 5 per cent. Owners taking bids due January 28th, 8 P. M.

Residence and Garage, 29 Morningside avenue, Trenton, N. J., \$8,000. Architect, private plans. Owner, Pozzi Pozzini, 227 Franklin street, Trenton, N. J. Stone, frame, 2 stories, 37x26 feet, 17x20 feet, slate roof, hardwood floors, electric light, tile work. Permit issued.

Residences (2), 1329-31 Decatur street, Camden, N. J., \$7,000. Architect, private plans. Owner, Carmelo Olivieri, 100 East Holley avenue, Oaklyn, N. J. Brick, block, 2 stories, 15x24 feet, slag roof, hot water heat, electric light. Permit issued.

Residences and Garages (2), 1575-77 Van Hook streets, Camden, N. J., \$5,200. Architect, Harold Allen, 526 Stevens street, Camden, N. J. Owner, Anthony F. Thiel, Maple

Shade, N. J. Brick and block, 2 stories, 15x38 feet, slag roof, hot water heat, electric light. Permit issued.

Garage (add.), 968 Chelton avenue, Camden, N. J., \$2,000. Architect, private plans. Owner, A. B. Johnson, 968 Chelton avenue, Camden, N. J. Block, 1 story add., 46x78 feet, slag roof. Permit issued.

Garage and Office Building, Sewall avenue and Railroad, Atlantic City, N. J., \$75,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, New Jersey Bell Telephone Co., C. H. Gordon, 1260 Broad street, Newark, N. J. Brick and steel, 1 and 2 stories, steam heat, slag roof. Owners taking bids.

Department of Purchase, C. E. Helm, No. 4 City Hall, Camden, N. J., taking bids due January 28th, 10 A. M. Deposit, \$20, refunded. Certified check, 5 per cent. Construction of marginal wharf and appurtenant work, Spruce Street Piers of Camden Marine Terminal. Also demolition and removal of timber crib, dredging and removal of approximately 130,000 cubic yards of materials from docks in front of proposed Marginal Wharf. Deposit, \$10, refunded. Certified check, 5 per cent.

New Jersey Contracts Awarded

Thomas Sharp School, Collingswood, N. J. Architect, F. Herbert Radey, 428 Market St., Camden, N. J. Owners, School District of Collingswood, H. Milton Restruck, 404 Cedar avenue, Collingswood, N. J. Brick, steel, 2 stories and basement, 41x67 feet, maple and cement floors, ornamental iron work. Contract awarded Hugh B. Miller, Edgewater Park, N. J., \$35,000; plumbing, Harry Knecht, Collingswood, N. J., \$1,345; electric, Fred Boehm, West Collingswood, N. J., \$1,040. Heating will be awarded in a few days.

Hotel, Morristown, N. J. Architect, William E. Lehman, 972 Broad street, Newark, N. J. Owners, Logan Realty Co., L. Cahan, 1955 Locust street, Philadelphia. Brick, steel, limestone, 5 stories and basement, 150x100 feet, slag roof, oak, yellow pine and cement floors, steam heat, electric light, metal lath, tile work, ornamental iron. Contract awarded Earl Thompson Co., 1955 Locust street, Philadelphia.

Bungalows (3), Brighton Shore, N. J. Architect, Wallace E. Hance, Equitable Building, Wilmington, Del. Owners, C. W. Griffith Corporation, Pennsylvania Building, Philadelphia. Frame, stucco, 1, 1½ and 2 stories, various sizes, shingle roof, pine and hardwood floors, electric light. Contract awarded H. C. Pontiere, Title and Trust Building, Ocean City, N. J.

Storage Pocket, New York avenue, Trenton, N. J., \$39,500. Architect, W. F. Dolke, 9 South Clinton street, Chicago, Ill. Owners, Plibrico Jointless Firebrick Co., G. A. Maier, New York avenue, Trenton, N. J. Concrete, stone, 1 story, 27x170 feet, concrete roof and floors. Contract awarded Nicholson Co., 247 Park avenue, New York.

Store (alts. and add.), 1077 South Broad street, Trenton, N. J., \$2,500. Architect, private plans. Owner, Louis Abromovitz, on premises. Frame, 1 story, 6x16 feet, tin roof, general interior alterations. Contract awarded Nathan Milgaten, 53 Spring street, Trenton, N. J.

Office (add.), 2623 Westfield avenue, Camden, N. J., \$6,000. Architect, private plans. Owner, Leon E. Todd, 2623 Westfield avenue, Camden, N. J. Block, 2 stories, 18x44 feet,

slag roof, oil burner, electric work. Contract awarded L. T. West, Fifth and Royden streets, Camden, N. J.

Store Front and Alterations, 938 Cooper street, Camden, N. J., \$2,000. Architect, private plans. Owners, Gladstone & Tovey, 920 Cooper street, Camden, N. J. New store front and general interior alterations. Contract awarded John C. Gibson, 527 Cooper street, Camden, N. J.

Miscellaneous Construction News

Buildings, location not yet decided, \$10,000,000. Owners, Victor R. C. A. Co., care of E. E. Shoemaker, president, Victor Talking Machine Co., Camden, N. J. Work contemplated.

Store Building, 117-19 West Eleventh street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, name withheld. Plans in progress.

Residence, Wawasett Park, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, Dr. Arthur L. Fox, 426 South Sycamore street, Wilmington, Del. Brick, stone, 2½ stories, 48x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Revised plans in progress.

Armory (alts. and add.) to Lodge, Twelfth and Orange streets, Wilmington, Del. Architect, Wallace E. Hance, Equitable Building, Wilmington, Del. Owners, Grand United Order of Odd Fellows, care of architect. Brick, 1 story, 80x80 feet, slag roof, maple floors, electric work, tile work. Architect about ready for bids.

Factory (add.), Christiana street, Wilmington, Del., \$6,900. Architect, private plans. Owners, The Pyrites Co., Ltd., foot of Christiana avenue, Wilmington, Del. Brick, 2 stories, 28x26 feet, built-up asphalt roof, steam heat, electric light. Permit issued.

Residence and Garage, Blackshire road, Wilmington, Del., \$20,000. Architect, private plans. Owner, Raymond Shull, 1827 Delaware avenue, Wilmington, Del. Brick, cinder block, 2½ stories, 28x46 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Permit issued.

Residences (4), 300-06 West Thirty-fifth street, Wilmington, Del., \$16,000. Architect, private plans. Owner, Luigi Fortunato, 510 North Broome street, Wilmington, Del. Brick,

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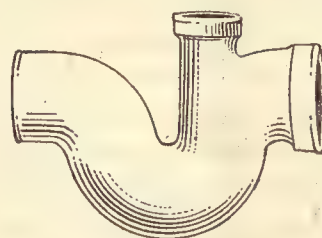
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Internal Revenue Building, Washington, D. C. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Stone, reinforced concrete, brick, granite, marble, steel, 7 stories and basement, 185,000 square feet, 228x199 feet (elevators reserved), composition, slate and tile roof, cement floors, hollow tile, terrazzo, rolled steel sash, hollow metal doors, bond, iron stairs, ornamental iron. Low bidders: James Baird Co., 1800 E street, N. W., Washington, D. C., \$5,799,000; George A. Fuller Co., Munsey Building, Washington, D. C., \$5,830,000.

Miscellaneous Contracts Awarded

Sunday School Building, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, Zion Lutheran Church, Wilmington, Del. Contract awarded William Powell, 1200 French street, Wilmington, Del.

Manufacturing Building and Office, Dayton, Ohio. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Leland Elce. Co., Dayton, Ohio. Contracts awarded: Plumbing to Huffman-Wolfe Co., Columbus, Ohio; electric, Kelso Wagoner Co., Dayton, Ohio.

MASTER BUILDERS' PROGRAM OUTLINED

Frank G. Stewart, Newly Elected President, Stresses Necessity of Obtaining Additional Work.

The activities of the Master Carpenters and Builders for the coming year were outlined by Frank G. Stewart, newly elected president, at the annual dinner held in the Manufacturers Club Jan. 16. Methods of obtaining a more satisfactory condition governing the placing of municipal work were considered. Comparatively little of this work is being done by members of the association, which do a business of approximately \$50,000,000 to \$60,000,000 annually in Philadelphia, Mr. Stewart said. This proposition, he assured the members, will be referred to a committee, and with the co-operative effort of the Board of Education a plan will be formed to obtain better conditions in this class of work. An improvement of the method of handling certified checks on municipal work was also suggested.

Architect's contracts were also discussed and a committee appointed to work in conjunction with the Philadelphia Chapter of the American Institute of Architects in drafting a uniform contract. The difficulty does not seem to be with the standard form contract of the American Institute of Architects, but from the additional riders and special contracts printed by a few architects and trust com-

panies, said Mr. Stewart. A standard and equitable form of contract between the general contractor and the sub-contractor will be considered at the same time.

The establishment of a credit service for contractors and builders was also advised by the president. A system whereby the secretary of the company could give immediate information to a member was suggested with the advisability of subscribing to two or more credit agencies for positive check-up purposes.

Another committee was also appointed to investigate insurance coverage and to recommend changes in the present method where fuller protection is deemed necessary.

Among other officers elected were: Barclay White and William R. Dougherty, vice-presidents; Charles G. Wetter, honorary secretary, and Horace H. Burrell, treasurer. The following members were elected directors: Joseph M. Steele, E. P. Flannery, John S. McQuade, H. H. Burrell, E. M. M. Bassett, Thomas Keffer, James G. Roberts, R. M. Peterson, John W. English, Alan S. Cornell, H. E. Curtis, Frank V. Warren and Charles Kessler.—*Public Ledger*.

BUILDING ACTIVITY TO CONTINUE ON LARGE SCALE IN 1929—NEW YEAR MAY EXCEED ALL RECORDS.

By C. STANLEY TAYLOR, *Director of Research, National Building Publications.*

The *Architectural Forum* and its companion publications of the National Building Group have just completed what is perhaps the most detailed and exhaustive survey of potential building activity ever made in this country. If the deductions which have been drawn from a great array of dependable facts and figures are correct, it is quite probable that the year 1929 may prove to be the greatest of building construction years.

In order to explain the basis for some of the unusual phases of this forecast, it may be well to describe briefly the investigating facilities and background which have been employed to develop the figures presented herewith.

For the past seven years *The Architectural Forum* has presented an exhaustive study of the work under way in the architectural offices of the country for the ensuing year. The predictions which have been based upon this annual survey have proved to be unusually accurate in view of the ultimate contract figures developed.

The present forecast is based upon confidential individual reports from the offices of 2,057 architects throughout the coun-

try, covering in detail the work now on their boards or in definite contemplation for contract letting in 1929, plus the information derived through the general building field. The total contact includes well over 150,000 individuals and organizations who are directly interested in various phases of the building industry and a cross-section of whose opinions must have a great bearing upon future activity.

Architects Busiest Year Apparent

In view of the fact that this confidential information from architects has been gathered by the *Forum* for seven consecutive years, it is highly significant to realize that the total contemplated work indicated in this eighth annual survey is greater than ever before in the history of the industry. The accompanying tabulation shows in detail the amount of work estimated to be on the boards of architects for building in the year 1929. This work does not include public works and utilities, but covers only actual building construction as contemplated by various types of owners who make up the clientele of the architectural profession today. Added to this there have been developed figures covering the types of buildings which are not planned by architects, but which in large measure are developed by contractors, engineers, and speculative builders, as explained in detail in later paragraphs.

Thus we find that the first significant fact is the unusual amount of prospective construction reported by the architects of the country.

Conditions have so changed, not only in the building industry, but in our entire commercial life, that the establishment of analytical forecasts cannot be carried out in exactly the same manner as in previous years. The building industry can well be compared to the situation on the stock exchange. Bankers and brokers have given up attempts to forecast the speculative and investment movement of the public by applying measurements of the past, and the reason for this is that so many different new elements have entered the picture that past performances are not sufficient.

New Factors in Building Activity

Similarly we find that new elements have crystallized in the building industry—factors which must change the methods of anticipatory measurement. For instance, the financing of building projects has been placed upon a much better basis of public relationship. There are not only tremendous underwritings of individual building projects being carried out by bankers in our various cities, but building operators have established securities of an investment nature which are even traded in on the stock exchanges of the country. We find the year 1928 showing in the

New York real estate market an actual securities exchange where real estate and building issues are actively traded, making a liquid market for such securities which for many years have carried the aspect of frozen or torpid investments. We find a tremendous number of municipal and state bond issues or other business of public financing being established for the carrying out of school, hospital and public building programs and for the development of airports, which in themselves promise to contribute mightily to the building volume of this country. There may be found in evidence also the consummation of a number of vast development projects and improvements which are opening up tremendous territories for active building construction. The subdivision builders of the residential field are undertaking housing projects almost beyond imagination in their scope. There is under way the most extensive modernizing and remodeling program ever known in the history of this country. This program is being deliberately developed by extensive educational work through building manufacturers, who realize the tremendous size of the potential markets created. Mortgage money, while handled in a manner more intelligent than formerly, is more plentiful than ever before and so many new methods and sources of financing for the building field have been established that no constructive program has to seek very far for its banking facilities.

Coupled with all these factors we have an increasing urge toward building construction by the public whose pocketbook was never so fat. We have a national administration which is known to have a constructive attitude toward developments which involve building and in which there is definite confidence on the part of all elements of the business world. We face several years of obvious prosperity and with no dark clouds threatening any disturbance of a program which promises more comfortable and efficient housing for all types of commercial, industrial and domestic activities.

In January, 1928, we advanced the theory that the several preceding years of great building activity did not represent a "boom period," but that the country and the building industry had arrived at a relatively new normal, augmented by a growing population; the desire for better housing and better buildings for commerce and industry; and by the ability to pay for these facilities.

The actual contract record of 1928 was approximately 5% ahead of the total for the year 1927 and 4% in excess of the total for 1926. These figures include not only building construction, but also engineering work and a considerable part of the volume reported is to be found in the public works and utilities classifica-

tion. On the other hand, the actual building construction has continued in such a volume for five years now that it seems absolutely necessary to discard the "boom period" and to accept the new normal.

Accompanying this article will be found a chart which in graphic form represents a rapid review of several years of building activity. One glance at this chart should serve to indicate the soundness of the "normal" interpretation. The final check on this theory of a new normal condition is to be found in the accompanying forecast of work under way in the architects' offices. Realizing again that this forecast is based on 2,057 individual reports; that it has been established after a very careful correlation and study of the individual sources of information; that it has proven substantially correct for the past seven years; and that no deviation in the method has been undertaken this year, it is felt that the law of averages functions to a point which will show it to be closely approximated in actuality during the year 1929, unless unusual economic disturbances interfere.

The coming years of prosperity will unquestionably see another great uplift in the standards of housing for all types of commercial, industrial and domestic buildings. Our cities, suburbs and rural areas are being drawn more closely together by unprecedented transportation improvements. Our congested central areas are decentralizing for the benefit of

those who desire to live in the suburbs and the country and they are reforming into new types of housing within the cities. Even the tenement districts are undergoing these changes and everywhere there is a change from the old to the new, either in the planning of new structures or the modernizing of old ones.

We are gradually learning better methods of measuring building construction activity in this country. The methods of collecting data and figures are being improved constantly and the facilities for such study are being greatly increased. When we realize that figures of actual records show an annual investment of well over six billion dollars and that there is a tremendous volume of unrecorded construction and of maintenance and remodeling expenditures, it becomes quite evident that we are building well over eight billion dollars worth of new construction annually and that the probable total expenditure in every phase of the building industry is perhaps ten billion dollars a year!

Significant Changes in Building Trends

While every condition points to a continuation of building activity and perhaps the exceeding of all past records to the amount of 4% or 5% for the year 1929, there are, of course, some significant changes. To measure the change of public demand we can compare the percentage figures of our 1928 forecast with those of our 1929 forecast as follows:

Type of Building	Requirements for New Building by Percentages			
	1928	1929	Change	
Automotives	3.9	2.8	—1.1	About 1-3 less
Banks	2.8	2.9	× .1	Slightly more
Apartments	13.2	13.1	— .1	About the same
Apartment Hotels	4.4	4.8	× .4	About 1-10 more
Clubs, Fraternals, etc.	3.5	3.4	— .1	About the same
Community, Memorial	1.5	1.2	— .3	About 1-5 less
Churches	4.3	4.2	— .1	About the same
Hotels	6.9	6.7	— .2	About the same
Hospitals	6.2	4.9	—1.3	About 1-5 less
Industrial	5.3	7.5	×2.2	About 40% more
Office Buildings	11.8	13.5	×1.7	About 15% more
Public Buildings	6.7	6.7	—	About the same
Schools	11.5	11.7	× .2	Slight increase
Stores	2.9	3.4	× .5	About 20% more
Theatres	3.3	3.2	— .1	About the same
Welfare, Y. M. C. A., etc.	2.1	2.2	× .1	About the same

In the field of dwelling construction the reports show less work on the boards of architects at the present time, but two facts must be realized in this connection. First, that a large proportion of projects of this nature were not actually on the boards in December when this survey was made and second, in the field of small dwellings a very large proportion of houses costing less than \$15,000 are not designed by architects. It would seem in this field that there would be built approximately the same volume of residential construction in 1929 as in 1928—per-

haps more and that in the case of houses costing \$50,000 next year will equal, if not exceed, the records of 1928.

It is apparent that these changes in trends of building various types of structures are but a logical reflection of the experience of several prosperous years in the commercial and industrial world. The building industry is apparently to be called upon to provide the facilities for increased production demands and for increased business activity. In the institutional field it is obvious that increased con-

(Continued on page 64)

COMPARISON of PUBLIC DEMAND for NEW BUILDINGS

(1929 Forecast Compared with that of 1928)

Figures from Annual Building Forecast of NATIONAL BUILDING PUBLICATIONS

NORTH ATLANTIC STATES				SOUTHWESTERN STATES			
Type of Building	Requirements for New Buildings by Percentages			Type of Building	Requirements for New Buildings by Percentages		
	1928	1929	Change		1928	1929	Change
Automotive	3.9	2.1	-1.8	Automotive	4.8	2.9	-1.9
Banks	4.2	2.7	-1.5	Banks	2.8	1.6	-1.2
Apartments	20.0	18.5	-1.5	Apartments	6.2	5.7	-.5
Apartment Hotels	.2	1.0	+.8	Apartment Hotels	3.6	4.3	+.7
Clubs, Fraternal, etc.	2.6	3.5	+.9	Clubs, Fraternal, etc.	4.1	3.6	-.5
Community, Memorial	.8	1.1	+.3	Community, Memorial	1.5	1.6	+.1
Churches	2.9	2.8	-.1	Churches	5.8	6.6	+.8
Dwellings (under \$20,000)....	4.4	4.2	-.2	Dwellings (under \$20,000)....	4.5	3.1	-1.4
Dwellings (\$20,000 to \$50,000)	4.0	2.0	+2.0	Dwellings (\$20,000 to \$50,000)	3.4	2.1	-1.3
Dwellings (over \$50,000)....	2.6	2.2	-.4	Dwellings (over \$50,000)....	3.1	1.6	-1.5
Hotels	6.2	4.8	-1.4	Hotels	12.5	12.5	-
Hospitals	6.0	5.6	-.4	Hospitals	5.9	3.5	-2.4
Industrial	4.6	6.6	+2.0	Industrial	3.4	9.8	+6.4
Office Buildings	8.0	12.3	+4.3	Office Buildings	15.9	11.4	-4.5
Public Buildings	7.1	9.4	+2.3	Public Buildings	4.9	5.1	+.2
Schools	11.4	8.4	-3.0	Schools	12.8	16.5	+3.7
Stores	3.1	4.0	+.9	Stores	2.2	2.2	-
Theaters	2.5	3.2	+.7	Theaters	1.0	2.1	+1.1
Welfare, Y.M.C.A., etc.	2.4	2.4	-	Welfare, Y.M.C.A., etc.	1.6	3.8	+2.2

NORTHEASTERN STATES				MIDDLE STATES			
Type of Building	Requirements for New Buildings by Percentages			Type of Building	Requirements for New Buildings by Percentages		
	1928	1929	Change		1928	1929	Change
Automotive	5.4	5.4	-	Automotive	3.8	3.2	-.6
Banks	3.4	5.9	+2.5	Banks	1.9	3.2	+1.2
Apartments	3.3	6.3	+3.0	Apartments	10.6	9.7	-.9
Apartment Hotels	.2	1.0	+.8	Apartment Hotels	6.0	5.5	-.5
Clubs, Fraternal, etc.	3.4	2.7	-.7	Clubs, Fraternal, etc.	4.9	3.8	-1.1
Community, Memorial	1.0	1.3	+.3	Community, Memorial	2.4	1.0	-1.4
Churches	6.4	7.9	+1.5	Churches	4.1	3.9	-.2
Dwellings (under \$20,000)....	6.4	4.1	-2.3	Dwellings (under \$20,000)....	2.8	2.3	-.5
Dwellings (\$20,000 to \$50,000)	3.7	3.9	+.2	Dwellings (\$20,000 to \$50,000)	2.1	2.1	-
Dwellings (over \$50,000)....	2.8	2.5	-.3	Dwellings (over \$50,000)....	1.8	1.4	-.4
Hotels	6.9	8.1	+1.2	Hotels	6.0	5.7	-.3
Hospitals	7.3	7.1	-.2	Hospitals	6.3	4.1	-2.2
Industrial	5.8	7.6	+1.8	Industrial	6.9	8.7	+1.8
Office Buildings	8.5	4.7	-3.8	Office Buildings	15.0	17.0	+2.0
Public Buildings	7.8	5.8	-2.0	Public Buildings	7.5	4.9	-2.6
Schools	13.6	16.8	+3.2	Schools	9.3	14.4	+5.1
Stores	3.8	2.4	-1.4	Stores	2.3	3.1	+.8
Theaters	7.	2.4	-4.6	Theaters	4.1	4.2	+.1
Welfare, Y.M.C.A., etc.	3.3	4.1	+.8	Welfare, Y.M.C.A., etc.	2.2	1.8	-.4

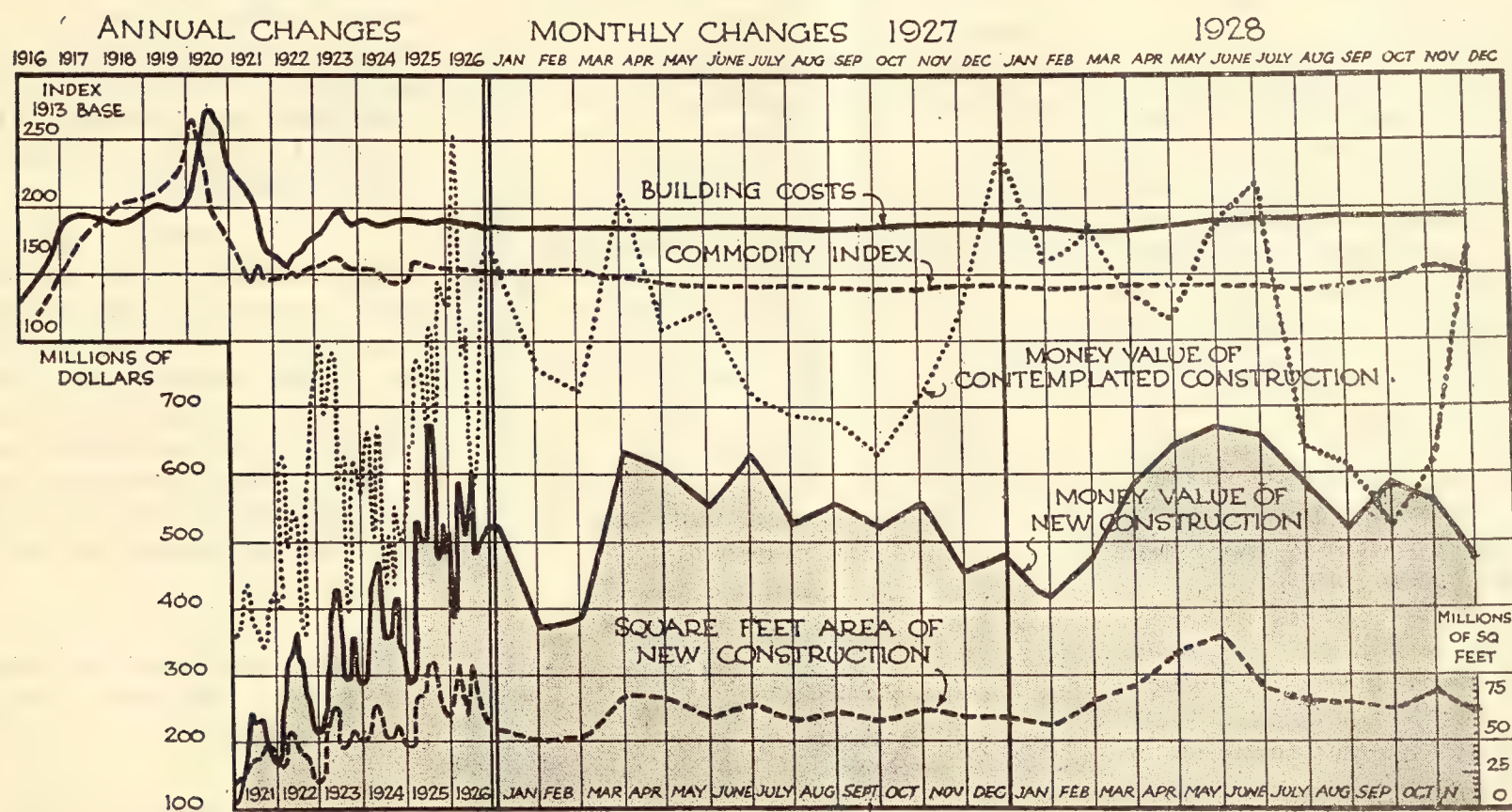
SOUTHEASTERN STATES				WESTERN STATES			
Type of Building	Requirements for New Buildings by Percentages			Type of Building	Requirements for New Buildings by Percentages		
	1928	1929	Change		1928	1929	Change
Automotive	4.8	5.3	+.5	Automotive	3.0	2.4	-.6
Banks	1.3	.8	-.5	Banks	1.2	2.2	+1.0
Apartments	8.2	7.5	-.7	Apartments	11.7	14.3	+2.6
Apartment Hotels	2.9	3.6	+.7	Apartment Hotels	5.9	7.1	+1.2
Clubs, Fraternal, etc.	1.7	1.1	-.6	Clubs, Fraternal, etc.	2.3	2.7	+.4
Community, Memorial	.3	1.1	+.8	Community, Memorial	1.7	1.9	+.2
Churches	7.4	16.3	+8.9	Churches	6.1	3.4	-2.7
Dwellings (under \$20,000)....	5.1	4.8	-.3	Dwellings (under \$20,000)....	4.3	4.1	-.2
Dwellings (\$20,000 to \$50,000)	4.7	4.2	-.5	Dwellings (\$20,000 to \$50,000)	4.0	2.5	-1.5
Dwellings (over \$50,000)....	4.0	4.0	-	Dwellings (over \$50,000)....	2.7	2.2	-.5
Hotels	11.7	10.1	-1.6	Hotels	6.9	11.2	+4.3
Hospitals	5.1	3.3	-1.8	Hospitals	6.3	5.6	-.7
Industrial	4.2	11.2	+7.0	Industrial	3.7	4.9	+1.2
Office Buildings	5.8	3.5	-2.3	Office Buildings	14.2	14.8	+.6
Public Buildings	2.9	4.4	+1.5	Public Buildings	4.7	4.7	-
Schools	21.6	9.3	-12.3	Schools	13.3	9.8	-3.5
Stores	3.0	3.2	+.2	Stores	4.1	3.9	-.2
Theaters	2.5	2.7	+.2	Theaters	2.8	1.5	-1.3
Welfare, Y.M.C.A., etc.	2.8	3.6	+.8	Welfare, Y.M.C.A., etc.	1.0	.8	-.2

DETAILED FORECAST of NEW BUILDING CONSTRUCTION for 1929

BUILDING TYPES	N. EASTERN STATES	N. ATLANTIC STATES	S. EASTERN STATES	S. WESTERN STATES	MIDDLE STATES	WESTERN STATES	U. S. A.
Automotive	\$14,469,400	\$42,132,200	\$7,447,000	\$10,670,000	\$56,322,200	\$14,539,800	\$145,580,600
Banks	15,730,000	53,312,600	1,148,400	5,984,000	56,999,800	12,859,000	146,033,800
Apartments	16,801,400	366,163,600	10,469,800	20,882,400	171,941,000	84,992,600	671,250,800
Apartment Hotels	2,640,000	83,560,400	4,972,000	15,554,000	97,979,200	41,925,400	246,631,000
Club, Fraternal, etc.	7,231,400	70,010,600	1,515,800	13,191,200	66,704,000	15,987,400	174,640,400
Community and Memorial	3,421,000	21,232,200	1,529,000	5,711,200	17,047,800	11,710,600	60,651,800
Churches	21,142,000	55,105,600	22,770,000	23,859,000	69,885,200	20,409,400	213,171,200
Dwellings (Below \$20,000)	10,936,200	83,540,600	6,791,400	11,215,600	40,198,400	24,314,400	176,996,600
Dwellings (\$20,000 to \$50,000)	10,346,600	38,445,000	5,935,600	7,629,600	37,470,400	15,085,400	114,912,600
Dwellings (Over \$50,000)	6,749,600	43,443,400	5,555,000	5,662,800	25,348,400	12,837,000	99,596,200
Hotels	21,659,000	95,763,800	14,212,000	45,513,600	101,378,200	66,149,600	344,676,200
Hospitals	18,860,600	110,105,600	4,606,800	12,749,000	73,035,600	33,169,400	252,527,000
Industrial	20,295,000	130,191,600	15,661,800	35,846,800	154,671,000	28,789,200	385,455,400
Office Buildings	12,485,000	244,101,000	4,859,800	41,296,200	300,979,800	87,760,200	691,482,000
Public Buildings	15,518,800	185,924,200	6,226,000	18,499,800	87,353,200	27,689,200	341,211,200
Schools	44,811,800	165,499,400	13,010,800	60,152,400	256,326,400	57,981,000	597,781,800
Stores	6,366,800	78,876,600	4,477,000	7,926,600	55,497,200	23,324,400	176,468,600
Theaters (All Types)	6,303,000	62,891,400	3,746,600	7,812,200	74,032,200	8,773,600	163,559,000
Welfare Y. M. C. A., etc.	10,799,800	48,100,800	5,077,600	13,666,400	31,858,200	4,644,200	114,147,000
TOTAL VALUE OF NEW BUILDINGS	\$266,567,400	\$1,978,400,600	\$140,012,400	\$363,822,800	\$1,775,028,200	\$592,941,800	\$5,116,773,200
New Construction Under Architect's Supervision.....							\$5,116,773,200
Buildings of All Types—Excluding Public Works and Utilities—Not Designed by Architects.....							2,192,020,000
(Estimated from Averages of Previous Years)							
TOTAL ESTIMATED CONSTRUCTION FOR 1929.....							\$7,308,793,200
(Exclusive of Public Works and Utilities)							

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BUILDING ACTIVITY in the UNITED STATES SINCE 1916



THE BUILDING SITUATION

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(Continued from page 61)

struction of new hotels should not be expected because in general we have enough space of this character. The hospital field in 1929 is evidently to have a breathing spell in actual construction activity, but it will be a tremendous year of planning to meet great hospitalization programs which are being undertaken by more communities than ever before. The school field shows a steady upward trend which is but natural in view of the expansion of our educational facilities, a condition which always accompanies prosperity.

The prediction of building activity for the year 1929 is presented in detail in the accompanying tabulation. In order to show the changing demand for various types of buildings in different sections of the country and consequently to indicate trends in types of construction, there will be found herewith tabulations showing the relative percentages in the 1929 survey. This represents the splitting up into six sections of the United States the figures already presented for the comparative national analysis.

CITIES BUY VENTILATION IN NEW MOTOR COACHES

Flu Epidemic Revives Clamor For Air Changes in Public Conveyances; Health Leaders Help

The flu epidemic has brought about renewed agitation for efficient mechanical ventilation of motor coaches, street cars, airplanes and even private automobiles in many American cities.

City and state health commissioners, besides the United States Public Health Service, are issuing warnings and asking for laws which will thoroughly protect the health and comfort of passengers who ride in public vehicles, while some prominent manufacturers, sensing the trend, already are providing these facilities.

Of nearly 500 huge motor coaches recently ordered by officials in Toledo, Detroit, Columbus, Cleveland and other cities to supplement street car service, every one is provided with a complete, compact mechanical system of ventilation which is capable of changing the air every three minutes without opening windows or causing drafts. Bad, germ-laden air and disagreeable odors are taken out continuously by blower fans which also pump in fresh air, take it through a heater and distribute it evenly among the passengers. Each of the 120 busses just purchased by the city of Detroit is provided with three ventilators in the roof, one in the cowl and an electric ventilating fan overhead near the door.

Dr. Paul F. Orr, health commissioner of Toledo, has investigated the ventilat-

ing system provided in 200 busses purchased during the last three months by the city of Toledo, besides insisting that this type of ventilation be provided for the city's 300 street cars. He is also making a survey of public schools, hotels, restaurants, theatres and other places to determine the extent to which the systems of ventilation are being operated with the view of immediate enforcement of ordinances which will minimize the risks of the widespread, communicable influenza. Toledo, Detroit, Cleveland, Chicago, New York, Buffalo, Milwaukee, Boston, and Philadelphia theatres are aiding the movement by advertising that elaborate air conditioning systems in their theatres carry out vitiated air continuously and are therefore the furthest removed from the dangers of "catching the flu."

In New York, the subways are equipped with blower fans and other ventilating equipment which are seldom operated. Since the flu struck this great center of population there has been extensive agitation to enforce the continuous operation of these fans. Some of the newspapers are caricaturing foul air in the subway trains and demanding more positive ventilation of the cars. In St. Louis, there has been newspaper agitation for ventilation of street cars. Patrons of the street cars are writing to the newspapers asking for city ordinances providing for specified air changes in these public conveyances. Out in Los Angeles, where the flu had an early start, public health officials declare that poor ventilation of public conveyances was one of the most prolific sources of this baffling malady.

Some of the most observing manufacturers of automobiles are giving increasing attention to ventilation of their products. Several have adopted a new type of hot water heater, which takes hot water from the circulating system of the engine and passes it through the heating element of the heater which is mounted conveniently on the dash under the cowl. Fresh air is driven through this heating element by a small blower fan to all corners of the interior of the car and returned, forming a complete circulation of fresh warm air which will keep the interior of the car snug and warm in the most disagreeable weather.

Several important manufacturers of the cabin air cruisers have given particular attention to the proper mechanical ventilation of these enclosed airplanes as well as other conveniences for the comfort and health of passengers. These features recently were noted in a special report of the Aeronautic Division of the American Society of Mechanical Engineers.

Practically all the quantity producers of automobiles recently have bulletined their dealers and branch service managers to make certain that ventilating sys-

tems are operated during the cold spell which brings with it the menace of carbon monoxide poisoning in closed garages.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A ten spot insures it fifty-two times in the course of a year.

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

You know what propaganda is, don't you? You know, too, how effective a weapon it is, if used properly, don't you? Well, advertising—honest, fair advertising—is the best propaganda we know of. Join the propagandists now! Advertise in the "Builders' Guide."

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship, it is going to miss by just that much the pulling power it ought to have.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right. —John D. Rockefeller.

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

"Facts are stubborn things." Advertise only the truth about your product and watch the result.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.
AIR WASHERS
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

S. Libman, 629 Cottage Ave., Pittsburgh, Pa.
Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

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Pearce Fireproof Co., 1911 N. 2nd St., Phila.

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J. E. Lingo & Son, Inc., Camden, N. J.

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Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

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Livezey, John R.,
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FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.
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Pennsylvania Tile and Mosaic Co.,
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January 30, 1929

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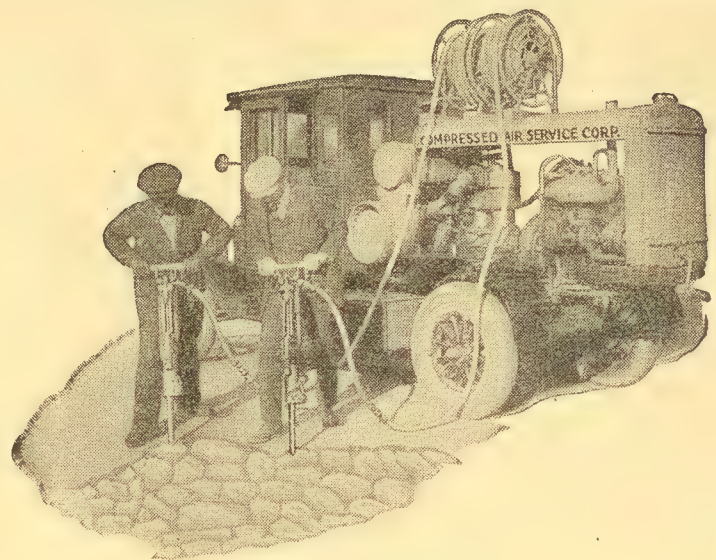
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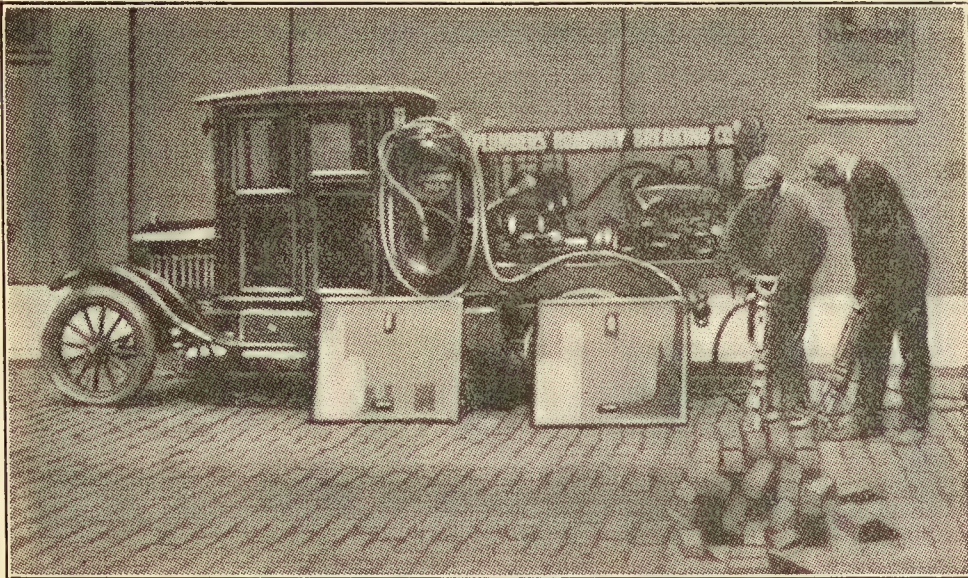
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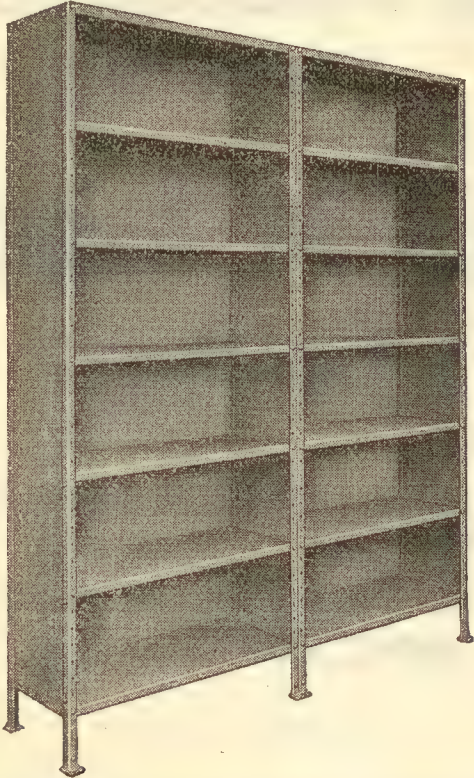
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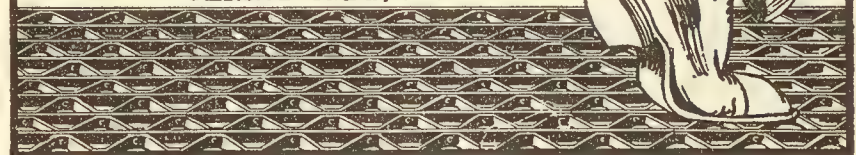
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Engineering and the Building Trades

VOLUME XLIV
Number 5

PHILADELPHIA
January 30, 1929

BUILDERS' GUIDE

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BY

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Stores and Offices, 3217-41 Chestnut street and 3234-50 Woodland avenue, Philadelphia, \$200,000. Architect, Frank E. Hahn, 629 Chestnut street, Philadelphia. Owners, Blair, Inc., 5225 Chestnut street, Philadelphia. Terra cotta, limestone, 10 stores on Chestnut street, 5 stores on Woodland avenue. Plans in progress.

Loft Building, 129-31 South Eleventh street, Philadelphia. Architect, Coshland & Beard, Chester, Pa. Owners, B. Cohen & Son, 109 South Eleventh street, Philadelphia. Brick, steel, fireproof, 12 stories, 35x100 feet, slag roof, hardwood floors, electric light, elevators, rolled steel sash. New plans in progress.

Apartment House, 3 Stores and Office Building, Southeast Corner Fifteenth and Jefferson streets, Philadelphia. Architect, Albert N. Dobbins, 1718 Cherry street, Philadelphia. Owner, name withheld. Brick, steel, concrete, cast stone, 4 stories and basement, 69x155 feet, irregular. Preliminary plans in progress.

Residence and Garage, Oak Lane Park, Pa. Architect, Albert Dobbins, 1718 Cherry street, Philadelphia. Owner, E. J. Loesche, care of architect. Cinder block, stucco, 2% stories, slate roof, hardwood floors, electric light. Preliminary plans in progress.

Residences (32), Glenview road, near Oxford avenue, Philadelphia. Architect, Lewis J. Cohen, 519 Real Estate Trust Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x32 feet, hardwood floors, hot wa-

ter heat, electric light, tile work. Plans in progress.

Recreation Center, Germantown and Allegheny avenues, Philadelphia. Architect, Leon Rones, 2133 North Natrona street, Philadelphia. Owner, Samuel Willig, Jr., North American Building, Philadelphia. Brick, steel, 100x175 feet, concrete and wood floors. Preliminary plans in progress. Will be ready for bids in 3 weeks.

Sales and Service and Administration Building, 2123 North Broad street, Philadelphia. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Trugas & Oil Co., Estey Building, Philadelphia. Brick, steel, 2 stories, 20x162 feet. Preliminary plans in progress.

Church and Sunday School, Northwest Corner Pulaski and Winona avenues, Philadelphia. Architects, C. W. Bolton & Son, 1505 Race street, Philadelphia. Consulting architect, George E. Merrill, 23 East Twenty-sixth street, New York City. Owners, West Side Presbyterian Church, Rev. W. P. Lee, 5516 Morris street, J. T. Craig, chairman, Wayne avenue and Reading Railroad, Philadelphia. Stone. Preliminary plans in progress.

Tioga Arms Apartment, 1828-30 West Tioga avenue, Philadelphia. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owner, Isadore Gordon, on premises. Brick, limestone, 4 stories, 60x195 feet, 56 apartments, electric light, hardwood floors, tile work. Owner ready for sub-bids due as soon as possible.

Apartment House, Kimball, North of Ogontz avenue, Philadelphia. Architect, I. Demchick, 1701 Chestnut street, Philadelphia. Owners, Blum & Brown, 1001 Pennsylvania Building, Philadelphia. Brick, steel, limestone, 4 stories and basement, 140x200 feet, hardwood floors, tile and marble work, electric light. Plans completed. Owners will build and will take sub-bids.

Residences (17), Cottman and Melrose avenue, Philadelphia. Architect, Lewis J. Cohen, 519 Real Estate Trust Building, Philadelphia. Owner, J. B. Plotke, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hardwood floors, garage in basement, hot water heat, electric light, tile work, metal lath. Owner will build and will soon take sub-bids.

Restaurant and Retail Shop, 5541-43 North Fifth street, Philadelphia. Architect, R. B. Bencker, Thirteenth and Chestnut streets, Philadelphia. Owners, Horn & Hardart Baking Co., 208 South Warnock street, Philadelphia. Limestone, bronze, brick, steel, 2 stories and basement, 34x115 feet, built-up roof, metal lath, steam heat, electric light. Ready for bids in a week.

Residences (31), Alresford and Thompson streets, Philadelphia. Architect, private plans. Owner, C. J. Short, 1517 Pine street, Philadelphia. Brick, 2 stories and basement, 16x37 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner taking sub-bids.

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Plant

Wissahickon Ave. & Juniata St.

Philadelphia

Eleventh and Chestnut streets, Philadelphia. Architect, H. G. Mitchell, 44 West Eighteenth street, New York. Owners, Whalen Drug Co., 44 West Eighteenth street, New York City. Shoring, concrete work, brick work, terrazzo floors, tile work, marble work, steel and iron work, bronze grills, carpentry and mill work, dumb waiters (Sedgwick Machine Co.), metal ceilings, kalamein doors, hardware, plumbing, Anaconda brass pipe, Taco heater, steam heating, radiators (American Radiator Co.), Craftex wall finish, electric light. Architect taking bids due January 31st.

School (wing), Rhawn and Ditman streets, Philadelphia. Architect, Irwin T. Catherine, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, W. Rowen, president; W. Dicks, secretary, Nineteenth and Ludlow streets, Philadelphia. Owners taking bids due February 5th.

Factory (add.), Thirty-third and Reed streets, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owners, Goodimate Co., Rubin Lipsky, on premises. Reinforced concrete, brick, steel, 4 stories, 63x126 feet, flat slate roof, asphalt roof, concrete floors, hollow tile on cinder block, steam heat, electric light, metal toilet partitions, elevators, steel skylights, fire tower, floor hardener (plumbing, heating, electric work reserved). Plans about completed. Ready for bids in two weeks.

Bank and Office Building, 1511-13 Walnut street, Philadelphia. Architect, Grant M. Simon, 1500 Walnut street, Philadelphia. Owners, Lionel Friedman, Fifteenth and Locust streets, agent. Lessees, H. L. Lang Co., second floor, 213 South Broad street, Philadelphia. Lessees, Hano Wasserman Co., first floor, 1418 Walnut street, Philadelphia. Limestone, brick, steel, 2 stories, 38x129 feet. Ready for bids in a few days.

Bank and Office Building, 3701 North Broad street, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Bank of Philadelphia & Trust Co., C. E. Buery, chairman, on premises. Brick, steel, architectural terra cotta, 11 stories and basement, 70x110 feet, slag roof, cement floors, steam heat, electric light, tile and marble work. Architect taking bids due February 12th at noon.

Store Building (alts. and add.), 639-43 North Broad street, Philadelphia. Architect, W. F. Silliman, 28 South Eighteenth street, Philadelphia. Owner, Harry T. Saunders, 28 South Eighteenth street, Philadelphia. Brick, steel, 1 story, 54x29 feet, slag roof, oak and pine floors, plumbing, steam heat, electric

light. Architect taking bids due February 4th.

Apartment House, Northwest Corner Hanson and Locust streets, Philadelphia, \$175,000. Architect, Lewis J. Cohen, Real Estate Trust Building. Owners, Lu Mor Construction Co., 3819 Poplar street, Philadelphia. Brick, 4 stories, 107x92 feet 2 inches, steam heat, electric work, slag roof, oak and yellow pine floors, tile work. Permit issued.

Storage Open Shed, Southwest Corner Clearfield and Mutter streets, Philadelphia, \$12,000. Architect, private plans. Owners, Allegheny Iron & Metal Co., Second and Clearfield streets, Philadelphia. Steel and frame, 1 story, 75x200 feet. Permit issued.

Apartment, 1508 West Allegheny avenue, Philadelphia, \$250,000. Architect, D. Supowitz, 929 Chestnut street, Philadelphia. Owners, Construction Company of America, 1508 W. Allegheny Ave., Phila. Brick, 4 stories, 73 feet 8 inches x 26 feet 8 inches, hot water heat, electric work, oak and yellow pine floors, tile work. Permit issued.

Residences (26), East side Fourth street, South of Cheltenham avenue, Philadelphia, \$105,000. Owner, Louis Braeunig, Jr., 5800 North Fourth street, Philadelphia. Brick, 2 stories, 15x41 feet, 11x11 feet, hot water heat, electric light, hardwood and pine floors, slag roof. Permit issued.

Coal Pocket, Jamestown and Cresson streets, Manayunk, Philadelphia. Owners, Hare & Cate, on premises. Reinforced concrete and steel. Plans in progress. Ready for bids in two months.

Coal Pockets, Main and Umbria streets, Philadelphia. Owners, S. S. Keely & Son, on premises. Reinforced concrete and steel. Plans in progress. Ready for bids in 6 weeks.

Supplies, Philadelphia. Owner's, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Owners taking bids due February 5th. Equipment, shellac, steel lockers, etc.

Factory Building, Mellon, west of 15th St., Philadelphia. Architect, private plans. Owner, A. O. Thomas, 681 North 15th street, Philadelphia. Brick, 2 stories, 87x92 feet, slag roof, cement floors, rolled steel sash. Owner taking bids due as soon as possible.

Residences (32), Comly street and Roosevelt Boulevard, Philadelphia. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owners, Brinkman & Hoover, 2617 Frankford avenue, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners ready for sub-bids.

Supplies, 312 City Hall, Philadelphia. Owner taking bids due Feb. 6th, at noon. Certified check, 5%. Lumber, limestone, bluestone, etc., electric refrigerators, hot water generators, miscellaneous equipment, fertilizer, furnishing and installing gymnasium equipment and furniture in recreation centers, lumber: white oak, hickory, white ash and gumwood.

Bank and Office Building, 3701 North Broad street, Philadelphia. Architect, Wm. H. Lee, 1505 Race street, Philadelphia. Owners, Bank of Philadelphia & Trust Co., C. E. Buery, chairman, on premises. Architect taking bids due Feb. 12th, at noon.

Store and Office, Northwest corner Broad and Spruce streets, Philadelphia. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owner, Edwin Wolf, care of architects. Limestone, terra cotta, brick, steel, 2 stories and basement, 40x114 feet, slag roof, wood and tile floors, structural steel, electric light, plumbing, marble work. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Boilers for Building No. 7, Atwater Kent Plant, Wissahickon avenue and Abbotsford road, Philadelphia. Architects, The Ballinger Co., 12th and Chestnut streets, Philadelphia. Contract awarded to Badenhansen Corporation, Cornwell Heights, Pa.

Building, 1231-33 Market street, Philadelphia. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Lionel Friedman, Inc., Fifteenth and Locust streets, Philadelphia. Brick, steel, Indiana limestone, 2 stories and basement, 180x38 feet, bond, excavation (demolition reserved), concrete and cement work, R. I. W. dampproofing, metal lath, plastering, marble and tile work, rolled steel casement windows (J. S. Thorn or equal), steel ventilator sash, metal partitions, iron work, iron grills, composition floors, caulking, plumbing, wrought iron pipe, Webster vapor heating, Pierce, Butler & Pierce boiler, oil burning equipment, sprinkler equipment, electric work. Contract awarded Kober Construction Co., 1616 Thompson street, Philadelphia.

Store (alts. and add.), 4460 Frankford avenue, Philadelphia. Architect, E. J. Hoffman, 485 Fifth avenue, New York City. Owners, Schulte United Co., 485 Fifth avenue, New York City. Brick, terra cotta, granite, 2 stories and basement, 144x41 feet, Barrett slag roof, maple floors, electric elevators, mason safety treads, metal window guards, metal ceilings, R. I. W. integral waterproofing, cast stone, electric light, metal lath, tile and Vermont marble, hollow metal sash, kalamein doors, demolition, iron stairs, ornamental iron work, bronze work. Contract awarded Barclay White Co., Thirty-sixth and Filbert streets, Philadelphia.

Residence and Garage, Westview street, Mt. Airy, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, L. F. Levy, Wayne and Berkley streets, Philadelphia. Stone, 2½ stories, tile roof. Plans completed. Builder taking sub-bids. Contract awarded Percival M. Sax, Penfield Building, Philadelphia.

Store, 1226 Chestnut street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, L. Jaffe & Son, Second and Green streets, Philadelphia. Brick, steel, limestone, 5 stories, mezzanine and basement, 19x100 feet, slag roof, oak, pine and cement floors, plumbing, eleva-

tors, metal lath, tile work (heating, electric work reserved.) Contract awarded Nelson Pedley Construction Co., Corn Exchange Building, Philadelphia.

..Synagogue, Roosevelt Boulevard and "D" street, Philadelphia, \$75,000. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owners, Congregation Brith Israel, 330 North Third street, Philadelphia. Brick, 2 stories, 53x12 feet 10 inches, 56x76 feet 8 inches, slag roof, maple floors, slag roof, vapor heat, terra cotta, metal lath, terrazzo work, steel sash, electric light. Contract awarded Edgar Construction Co., 26 South Fifteenth street, Philadelphia.

Office, 105 North Watts street, Philadelphia, \$10,000. Architect, H. B. Weldon, 1817 Callowhill street, Philadelphia. Owner, R. E. Payne, 1817 Callowhill street, Philadelphia. Brick, 2 stories, 18x43 feet. Contract awarded Smith-Hardican Co., 1809 Callowhill street.

Church Fire Repairs, Northwest Corner Tyson and Van Dyke streets, Philadelphia, \$7,500. Architect, private plans. Owners, Church Foundation, 202 South Nineteenth street, Philadelphia. Contract awarded Fred A. Havens Co., 845 North Nineteenth street, Philadelphia.

Coal Trestle, West side Twenty-fifth, North Tasker street, Philadelphia, \$4,000. Architect, private plans. Owners, National Alloy Co., 2500 Dickinson street, Philadelphia. Contract awarded Frank Brennan, 2507 Tasker street, Philadelphia.

Store and Manufacturing Alteration, 1413-15 South street, Philadelphia, \$2,800. Architect, private plans. Owner, Rubin Jacobs, Northwest Corner Broad and South streets, Philadelphia. General interior alterations. Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia.

Garage and Storage Building (alts.), Sixteenth and Appletree streets, Philadelphia, \$25,000. Owners, Stephen Green Estate, 1600 Walnut street, Philadelphia. General alterations. Contract awarded B. W. & M. Eglin, 633 Reed street, Philadelphia.

Apartment House (alts.), 1904 Arch street, Philadelphia, \$3,000. Owner, John J. Sweeney, 5339 Diamond street, Philadelphia. General alterations. Contract awarded John F. Donnelly, 4709 Brown street, Philadelphia.

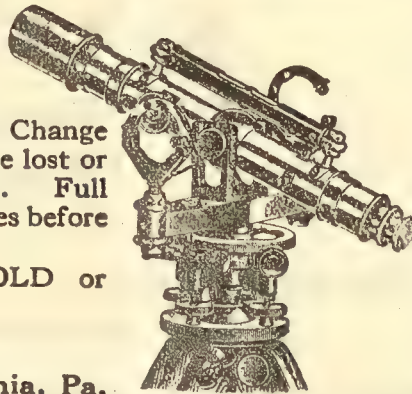
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Residences (2), East side Ogontz avenue, north of Olney avenue, Philadelphia, \$20,000 total. Architect, private plans. Owner, Wm. R. Brown, Esq., Northwest corner Ogontz and Olney avenues, Philadelphia. Brick, 2 stories, 50x19 feet, hot water heat, electric work, slag roof. Contract awarded Kaplan Miller, Inc., 1218 Real Estate Trust Building.

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Store and Residence (alts.), 2615 Germantown avenue, Philadelphia, \$5,000. Architect, private plans. Owner, H. D. Clauser, Glenside, Pa. Contract awarded Wolf & Shoffet, 3819 Poplar street, Philadelphia.

Museum Addition, 5520 Arch street, Philadelphia, \$2,000. Architect, private plans. Owner, Samuel Yellin, on premises. Brick, 1 story, 13 feet 3 inches x 35 feet. Contract awarded Haverstick & Borthwick, 1505 Race street, Philadelphia.

Building, 6127 Germantown avenue, Philadelphia. Architect, I. Demchick, 1701 Chestnut street, Philadelphia. Owner, Max Weiss, on premises. Contract awarded John Roman, 414 E. Brighthurst street, Philadelphia.

Pennsylvania Construction News

Jackson School (add.), York, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, York City School Board, David N. Crider, secretary, King and Cherry streets, York, Pa. Architect selected.

Junior High School, East End, York, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, York City School Board, David N. Crider, secretary, King and Cherry streets, York, Pa. Architect selected.

Smallwood School (add.), York, Pa. Architects, Witman & Royer, Central National Bank Building, York, Pa. Owners, York City School Board, David N. Crider, secretary, King and Cherry streets, York, Pa. Architects selected.

Lodge Building (add.), Conshohocken, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owners, L. O. O. M., Conshohocken Lodge, W. Russell. Conshohocken, Pa. Brick, 2 stories, 40x75 feet. Preliminary plans in progress.

Bell Telephone Exchange, West Chester, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Nineteenth and Arch streets, Philadelphia. Brick, steel, stone, 3 stories. Plans in progress.

Residences (4), Villa Nova, Pa., \$125,000 each. Architect, private plans. Owners, Flanigen & Flanigen, Ardmore, Pa. Work contemplated.

Residence, East side Mt. Mora road, between Spring Mill and Mt. Pleasant Road, Villa Nova, Pa., \$150,000. Architect, private plans. Owners, Durham & Irvine, 312 South Broad street, Philadelphia. Stone, 2½ stories, slate roof, hardwood floors, electric light, tile work. Plans in progress.

American Legion Home, Fullerton, Pa. Architect, W. Z. Bane, Perkins Building, Allentown, Pa. Owners, Fullerton Post No. 567, American Legion, J. Dresler, Chairman Building Committee, Fullerton, Pa. Brick, 1 story. Sketches in progress.

Disposal Plant, Pottstown, Pa. \$150,000. Engineers, W. H. Dechant & Son, Reading, Pa. Owners, Borough of Pottstown, Stanley Swinehart, Pottstown, Pa. Addition to sedimentation basin, Pottstown, Pa. Plans in progress.

Residence, Elkins Park, Pa., \$35,000. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, John H. Dallas, care of architect. Stone, cinder block, frame, stucco, 3 stories, 40x72 feet, shingle roof, hardwood floors, electric light, tile work. Plans in progress.

Residence, Montgomery avenue, Villa Nova, Pa. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, Thomas E. Hare, 818 Walnut street, Philadelphia. Stone, 2½ stories, 28x139 feet, shingle roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans about completed.

Store Front, 96 West Broad street, Bethlehem, Pa. Architect, W. Z. Bane, Perkins Building, Allentown, Pa. Owners, Potruch Construction Co., 926 Hamilton street, Allentown, Pa. Plate glass, copper work, tile, marble, general alterations. Plans in progress. Owners will build.

Hosiery Mill (add.), Chalfonte, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Chalfonte Hosiery Mills, care of G. Campbell, Chalfonte, Pa. Brick, steel, 1 story, 75x107 feet, York unit heat extension, saw tooth, concrete wood, plumbing, electric light. Plans completed.

Fire House, Cornwells, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Cornwells Fire Co. No. 1, Ralph Simon, Cornwells, Pa. Brick, 2 stories, 35x50 feet, built-up slag roof, concrete and wood floors, overhead door, hot water heat, electric light. Plans about completed. Owners will be ready for bids in one week.

Residence (alts. and add.), near Buckingham, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, name withheld. Stone, 2½ stories, 18x22-foot addition, garage, 1 story, 22x22 feet, general alterations to present building, 2½ stories, 21x75 feet, hardwood floors, electric light, tile work, metal sash. Plans in progress.

Vocational High School, Gymnasium and Auditorium, Seventeenth and Linden streets, Allentown, Pa. Architects, Ruhe & Lange, 12

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North Sixth street, Allentown, Pa. Owners, Allentown School District, D. A. Miller, president, 29 South Penn street, Allentown, Pa. Brick, steel, 4 stories, 36 rooms, hollow tile, safety treads, metal lath, steel skylights. Owners will take bids in three weeks.

Residences and Garages (22), Yeadon, Pa. Architect, Lewis J. Cohen, 519 Real Estate Trust Building, Philadelphia. Owner, Robert E. Green, care of architect. Brick, stucco, 2 stories, 18x32 feet, 10x15 feet, shingle roof, hardwood floors, central heat, electric light, tile work. Owners will build and will be ready for sub-bids in two months.

Church, Easton, Pa. Architect, A. D. Chidsey, Jr., 239½ Northampton street, Easton, Pa. Owners, First Moravian Church, Rev. Robert Giering, Easton, Pa. Brick, steel, 1 story and basement, 40x100 feet, slate roof, maple floors, steam heat, electric light. Architect will take bids about March 15th.

Warehouse, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Lehigh Valley Outdoor Advertising Corporation, J. McLaughlin, 1905 Hanover avenue, Allentown, Pa. Brick, steel, 1 story, 80x120 feet, 30x30 feet, slag roof, concrete floors, steam heat, electric light, steel sash, skylights. Architects will be ready for bids in a week.

Warehouse, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Hill Metal & Roofing Co., C. S. Shelley, 90 North New street, Allentown, Pa. Brick, fireproof, 2 stories, 44x125 feet. Ready for bids first of next week.

Residence and Garage, Drexel Hill, Pa. Architect, private plans. Owner, H. W. Greeninger, 6807 North Seventh street, Philadelphia. Stone, frame, 2½ stories, 26x32 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build and will be ready for sub-bids March 1st.

Residence and Garage, Folcroft, Pa. Architect, private plans. Owner, Esbon B. Pierce, 5127 Aspen street, Philadelphia. Stone, frame, 2½ stories, 27x45 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. H. W. Greeninger, 6807 North Seventh street, Philadelphia, will build.

Residence and Garage, Ithan, Pa. Architects, DeArmond, Ashmeade & Bickley, 20 South Fifteenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 67x60 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architects taking sub-bids.

Residence and Garage, Villa Nova, Pa. Architect, Ralph E. White, 1518 Walnut street, Philadelphia. Owners, E. J. Heddon Co., Finance Building, Philadelphia. Stucco, 2½ stories, 30x120 feet, 30x60 feet, slate roof, hardwood floors, electric light, tile and marble work. Plans in progress. Owners will build.

Church Building, Clark Summit, Pa. Architects, Office of George C. Baum, Early & Emmert, 1511 Arch street, Philadelphia. Owners, Trinity Evangelical Church, Clark Summit, Pa. Concrete block, stucco, 1 story and basement, slate roof, maple and rubber stone, tile floors, cement work, plumbing, steam heat, electric light. Architects taking bids due February 4th.

Fire House, Drexel Hill, Pa. Architect, Herbert O. Ziegler, Drexel Building, Philadel-

phia. Owners, Drexel Hill-Garrettsford Fire Co., care of George K. Robinson, 260 Burmont avenue, Drexel Hill, Pa. Brick, cast stone, steel, 1 story and basement, 45x98 feet, slate roof, cement floors. Owners taking bids due February 14th at noon.

Residence and Garage, Rosemont, Pa. Architect, J. Bedford Wooley, 1935 Chestnut street, Philadelphia. Owner, J. L. Gray, Lancaster pike, Bryn Mawr, Pa. Stone, 2½ stories, 35x65 feet, slate roof, hardwood, cement and pine, hot water heat, electric light, tile work. Gray Brothers, Rosemont, Pa., will build and will take sub-bids.

Apartment House, Essex and Lansdowne avenue, Lansdowne, Pa., \$140,000. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owner, Milton L. Staley, Upper Darby, Pa. Reinforced concrete, brick, steel, cast stone, 4 stories and basement, 160x130 feet, built-up roof, hardwood, linoleum, tile floors, elevators, wall finish, electric refrigerator, kitchen and laundry equipment, door beds, hot water heat, electric light, tile and marble work, fire alarm, metal doors, steel fire tower stairs. Owner and architect taking sub-bids.

Church Building (alts. to present Sunday School), Bangor, Pa. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Salem Evangelical Church, Rev. J. R. Torkin, Bangor, Pa. Stone church, 1 story, 42x80 feet, addition 1 story, 40x60 feet, slate roof, maple floors, structural steel, steam heat, electric light. Ready for bids in a few days.

Hosiery Mill, Willow Grove, Pa. Engineer, Wm. P. Cameron Engineering Co., Packard Building, Philadelphia. Owners, Regina Hosiery Mill Co., Inc., Amber above Allegheny avenue. Brick and steel, concrete. Plans in progress.

Store Building, 701-07 Penn street, Reading, Pa., \$75,000. Architect, Frederick A. Muhlenberg, Ganster Building, 5th and Walnut streets, Reading, Pa. Owners, Imber Brothers, 949 Penn street, Reading, Pa. Brick, concrete, steel, 3 stories and basement, 50x200 feet, slag roof, hollow metal sash, water and dampproofing. Architect taking bids.

Residence and Garage, Perkiomen Turn

Pike, west of Norwood avenue, Chestnut Hill, Pa. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, John S. Haug, 7814 Cresheim road, Philadelphia. Architect, taking bids due Feb. 11th, at noon.

Fraternity House, State College, Pa. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories. Preliminary plans in progress.

Pennsylvania Contracts Awarded

Residence and Garage, Glenview and Gulf roads, Bryn Mawr Hills, Pa. Architects, Seeburger & Rabenhold, 1524 Chestnut street, Philadelphia. Owner, G. Herbert Taylor, 1518 Walnut street, Philadelphia. Stone, 2½ stories and basement, 100x30 feet, shingle roof, oak, pine and cement floors, vapor heat (electric work reserved), metal lath, tile work. Contract awarded J. Howard Roberts, Lansdowne, Pa. Heating, Bowers Brothers, 2015 Sansom street, Philadelphia. Plumbing, W. C. Broughton, Lansdowne, Pa.

Y. W. C. A., Norristown, Pa. Architect, H. G. McMurtrie, 1321 Arch street, Philadelphia. Owners, Y. W. C. A., Norristown, Pa. Contract awarded F. R. Heavner, Norristown, Pa. Plumbing, Crissman & Quillman, Norristown, Pa. Heating and electric, J. F. Boyer, Norristown, Pa. Swimming pool, Hasbrouck Co., Grand Central Terminal, New York. Tile, marble, slate and terrazzo to Pennsylvania Tile & Mosaic Company, 1637 Wood street, Philadelphia.

Residences (3), Wynnewood, Pa. Architects, McIlvaine & Roberts, 112 South Sixteenth street, Philadelphia. Owners, William Anderson, J. M. Anderson, 600 Schuylkill avenue, E. J. Schmidheiser, 1715 Land Title Building, Philadelphia. Stone, 2½ stories, 79x45 feet, 83x34 feet, 106x18 feet, respectively (heating and plumbing reserved by owner), slate roof, slag roof, pine, oak and slate floors, electric light, metal lath, tile work, Kane

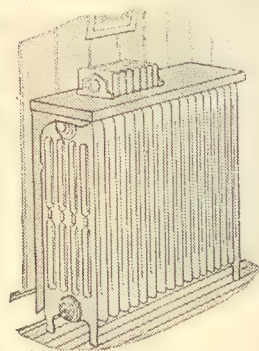
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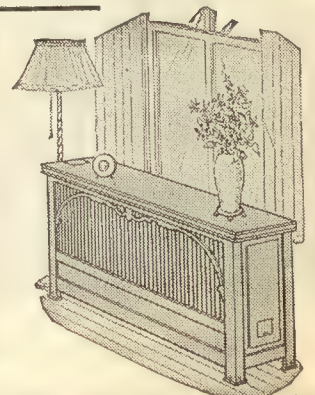
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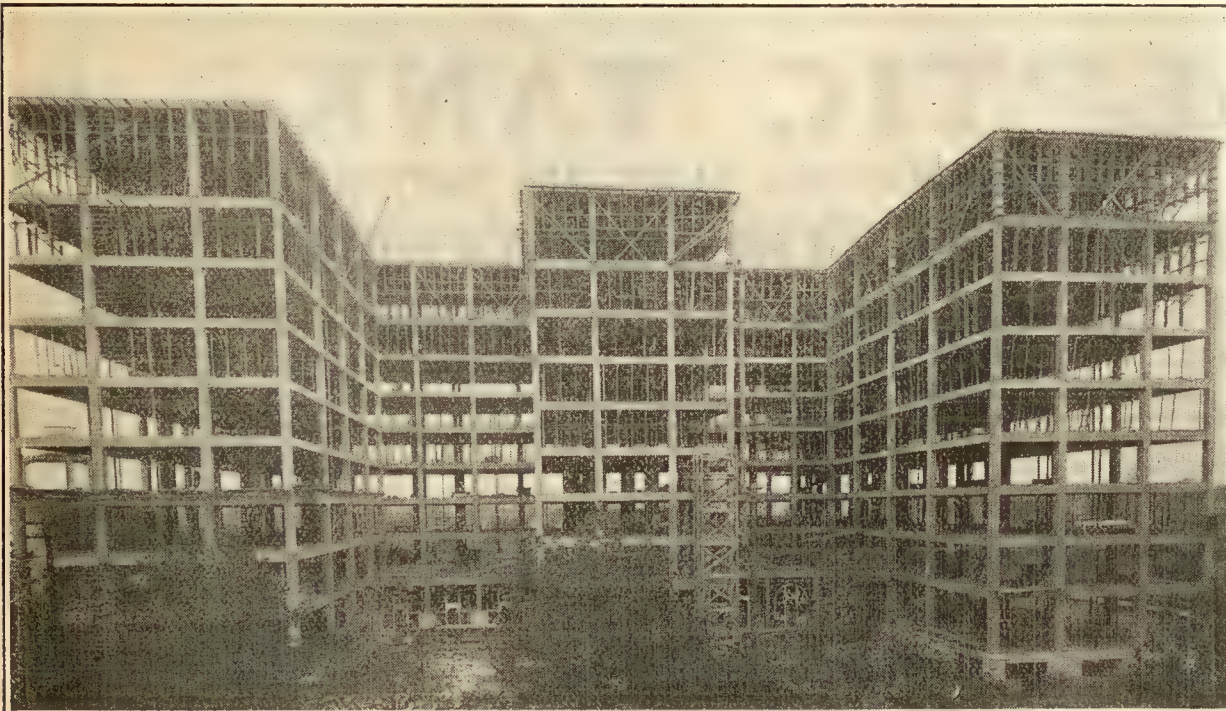
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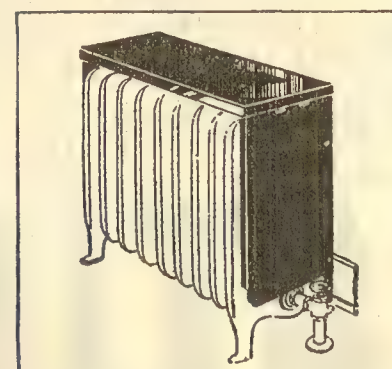
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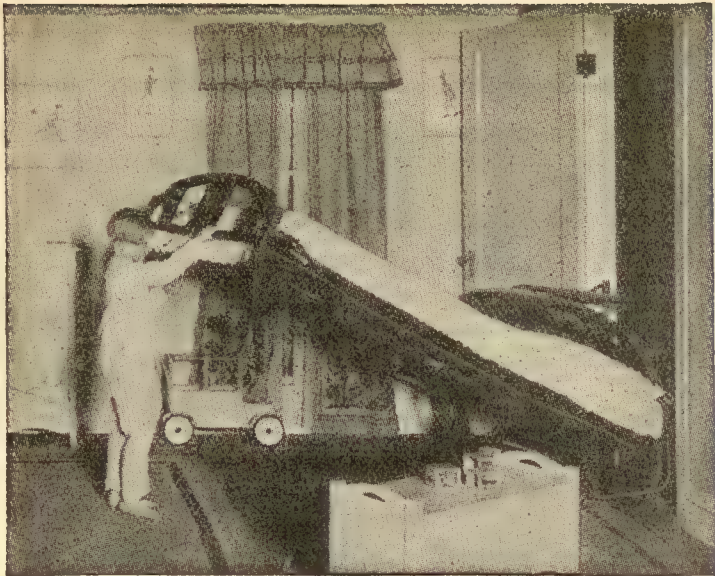
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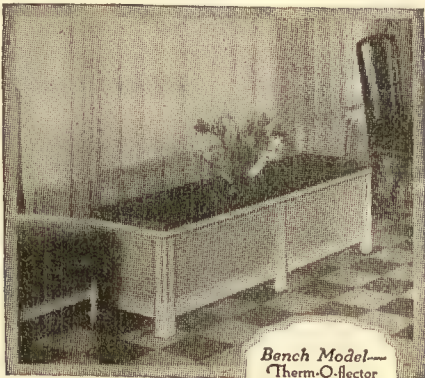
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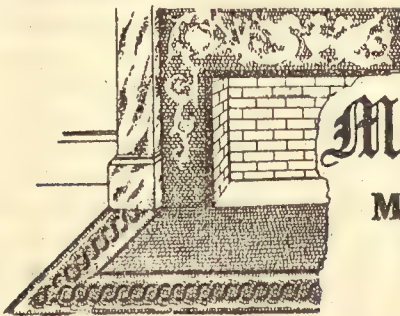
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metal weather strip. Contract awarded Metzger & Co., Otis Building, Philadelphia.

Mill Building, Rockledge, Pa. Architect, Louis H. Friedland, 562 Fifth avenue, New York City. Owners, Fox Chase Knitting Mills, 27 Jarrett street, Philadelphia. Brick, steel, 3 stories and basement, 160x90 feet, slag roof, yellow pine floors. Contract awarded Stewart Brothers, 2526 North Orkney street, Philadelphia.

Garage and Show Room, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owners, A. Phillips, 224 West Third street, Bethlehem, Pa. Fireproof, 3 stories, 80x120 feet, slag roof, concrete floors, steel sash, fire doors. Contract awarded F. B. Glassmire, Bethlehem Trust Building, Bethlehem, Pa.

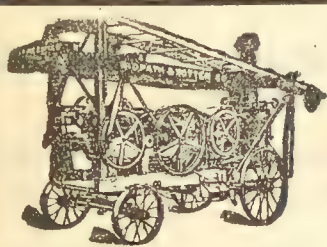
Stores and Offices, 4627 Rising Sun avenue, Philadelphia, \$3,500. Architect, private plans. Owner, Charles G. Bernhardt, 4623 Rising Sun avenue, Philadelphia. Brick, 2 stories, 22x19 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded James Christopher, 5055 Portico street, Philadelphia.

Firehouse, Boothwyn road, Boothwyn, Pa., \$10,000. Architect, private plans. Owners, Boothwyn Fire Co. No. 2, Thomas McAbb, president, Boothwyn, Pa. Brick, 2 stories, slag roof, concrete and wood floors, electric light, plumbing. Contract awarded Samuel Miller, Boothwyn, Pa.

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Pa. Architect, private plans. Owner, name withheld. Stone, brick, 2½ stories and basement, 35x25 feet, shingle roof, oak, pine and cement floors, plumbing, hot water heat, electric light, tile work, metal lath, ornamental iron work, cinder concrete block, medicine cabinets. Contract awarded Clarke & Harvey, Packard Building, Philadelphia. Ready for sub-bids about February 1st.

Store and Apartment (alts. and add.), Norristown, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owner, George Evans, 618 Noble street, Philadelphia. Brick, 2 stories, general alterations. Contract awarded A. J. Kinsella, Norristown, Pa.

Bakery (add. and alts.), Glenside, Pa. Architect, private plans. Owner, Ernest F. Gunn, Glenside, Pa. New front, general interior alterations. Contract awarded Stewart Brothers, 2526 North Orkney street, Philadelphia.

Church (add.), Newtown, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, St. Luke's Protestant Episcopal Church, Rev. A. Flanagan, Newtown, Pa. Brick, 1 story, 16x45 feet, asbestos shingle roof. Contract awarded C. Y. Stradling, Newtown, Pa.

Residence (alts.), Upland, Pa. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. General alterations. Contract awarded I. Manin, 5226 W. Berks street, Philadelphia.

Shelter Shed, Upper Darby, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owners, Philadelphia & Garrettford R. R. Co., 69 th and Market streets. Stone and frame, 1 story, 25x5 feet, shingle roof, painting, electric light. Contract awarded C. E. Fogg, Lansdowne, Pa.

New Jersey Construction News

High School, South Clinton and Park avenue, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Hamilton Township School Board, W. A. Robinson, Greenwood School, Greenwood avenue, Trenton, N. J. Brick, steel, 2 stories, built-up roof, maple floors, metal lath, tile (plumbing, heating and electric separate). Plans completed. Owners ready for bids.

Temple, Boulevard, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Har Sinai Temple, care of architect. Stone, fireproof, 1 story and basement, 100x150 feet, tile roof, tile and cement floors, hollow tile, safety treads, roof ventilators, metal window guards, bronze, wrought iron pipe, ornamental iron work, iron stairs, bond, fire doors, skylights, steel sash, tile, marble, metal lath (heating, plumbing and electric separate). Architect will be ready for bids in a few days.

Residences (3), Lawrenceville, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, A. F. Rob-

ertshaw, Lawrenceville, N. J. Brick, stucco, stone, 2½ stories, slate and shingle roof, hardwood floors, electric light, tile work. Owner will build.

Apartment House, Trenton, N. J. Architect, Walter Hankin, 224 East Hanover street, Trenton, N. J. Owners, Robinson & O'Donnell, Trenton, N. J. Brick, steel, 8 stories, 120x118 feet, slag roof, oak floors, steam heat, electric light, metal lath, tile, marble, elevators (2), steel sash, iron stairs, ornamental iron, cinder concrete block, waterproofing and dampproofing, incinerator. Plans in progress. Owners will build.

Lawrence Cooper Hotel (alts. and add.), Broad and High streets, Burlington, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owner, George C. Gunn, Burlington, N. J. Brick, cast stone, steel, 4 stories and basement, 79x126 feet, rubber tile floors, oak floors, Solidone and Craftex wall finish, bind bond 5 per cent., demolition, surety bond, reinforced concrete, steel sash (J. S. Thorn), metal lath, bronze grills, marble work, Arvon wall finish, medicine cabinets, metal skylights, kalamein doors, Carey roof or equal, treadlite and linoleum floors, cast stone (Economy or equal). Architect taking bids due January 31st, 8 P. M.

Municipal Market and Loading Platform and Marquise (add.), Atlantic City, N. J. Architect, A. F. Amodio, Schwehm Building, Atlantic City, N. J. Owners, City of Atlantic City, Mr. Whitman, City Clerk, City Hall, Atlantic City, N. J. Brick, steel, 2 stories, 49x84 feet, slag roof, cement floors, tile, metal lath, steel sash, cinder block, ornamental sheet metal work, cut stone (heating, plumbing and electric separate). Owners taking bids due January 31st.

Building, State Highway and Seventeenth street, Camden, N. J., \$110,000. Architect, C. W. Fairweather, Metuchen, N. J. Owners, Public Service Gas & Electric Co., 80 Park Place, Newark, N. J. Brick, 2 stories, 116x35x67 feet, slag roof, steam heating, electric light. Permit issued.

Mill Building, Blackwood, N. J. Engineers, William Steele & Sons Co., Fifteenth and Cherry streets, Philadelphia. Owners, Blackwood Silk Hosiery Co., care of engineer. Brick, steel, 1 story, 60x175 feet, saw-tooth roof, cement floors, steam heat, electric light. Plans in progress. Engineers will build.

Residences (3), Ainsley Park, Pleasantville, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owner, Ainsley Fox, Union Bank Building, Atlantic City, N. J. Brick, 2½ stories, 33x28 feet, slate roof, hardwood floors, tile work, electric light. Owner will build.

High School, Glassboro, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Glassboro, N. J. Owners taking bids due February 15th.

Theatre, Princeton, N. J. Architect, D. K. Este Fisher, Jr., Union Trust Building, Baltimore, Md. Owners, McCarter Theatre, care of architect. Architect taking bids due February 5th.

Administration Building (add. and alts.), Colony for Feeble Minded Women, Vineland, N. J. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, limestone, steel, 3 and 1 stories and basement, 164x56 feet, garage, 32x26 feet, demolition, wood deck roof, dumb waiter, caulking, gray granite, metal lath, plastering, marble, blue-stone, tile, terrazzo, iron work, iron stairs, slag roof, slate roof, metal weather strip. Lowest bidders: H. John Homan Co., Eight-

centh and Cherry streets, Philadelphia, \$109,728; Evans-Falcione Co., 1420 Walnut street, Philadelphia, \$109,977; plumbing, Harry Knecht, Collingswood, N. J., \$8,060; heating, South Jersey Engineering & Sales Co., 534 Cooper street, Camden, N. J., \$5,996. Electric, Franks & Sweeney, 1073 Haddon avenue, Camden, N. J., \$4,490.

Bridge, Route 29, Sec. 2A, across Stuyvesant avenue, Union County, N. J. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Concrete, reinforcing steel, structural steel. Owners taking bids due February 11th at noon. Certified check, 10 per cent. Deposit, \$10.

Office Building and Show Room, Northwest corner Market and Washington streets, Gloucester, N. J. Architect, Louis H. Goettelman, 402 Chestnut street, Brooklawn, N. J. Owners, J. R. Quigley Co., Market street and W. J. & S. S. R. R., Gloucester, N. J. Brick, concrete, structural steel, 2 stories and basement, tower, 81 feet 6 inches x 70 feet, slag roof, maple floors, steam heat, electric work, ornamental iron, copper bulks, iron work. Contract awarded Jacob Shlainsey, 2 Zane Ave., Collingswood, N. J.

New Jersey Contracts Awarded

Store Front (alts.), 427-29 Kaighn avenue, Camden, N. J., \$5,000. Architect, private plans. Owner, I. Handel, Broadway and Newton avenue, Camden, N. J. New front and interior alterations. Contract awarded Walter D. Miller, Plaza Hotel, Camden, N. J.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Brod Street Bank Building, Trenton, N. J. Route 29, Sec. 5, Ringoes to Mt. Airy, Hunterdon County, N. J. Contract awarded William Eisenberg & Sons, Smith-Austermuhl Building, Camden, N. J., \$201,878.97.

Miscellaneous Construction News

Bank and Office Building, Rockville, Md., \$100,000. Architects, Tilghman-Moyer Co., 141 North Ninth Street, Allentown, Pa. Owners, Farmers' Bank & Trust Co., R. G. Hilder, president, Rockville, Md. Limestone, 2 stories. Plans in progress.

Department of Commerce Building, Washington, D. C., \$7,000,000. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Stone, fireproof, 7 stories and basement, 274,000 square feet ground area, elevators, dumb waiters, bond. Deposit, \$200. Owners taking bids due March 27th.

St. Joseph's Seminary, Washington, D. C. Architects, Maginnis & Walsh, Statler Building, Boston, Mass. Owners, St. Joseph's Seminary, Rev. L. B. Pastorelli, S. S. J., on premises. Reinforced concrete, steel granite, limestone, brick, bond, excavation, miscellaneous iron, area gratings, vault doors (Hernig Hall, Marvin Safe Co.), artificial stone, dampproofing (Toch Brothers, R. I. W. General fireproofing), waterproofing, concrete floors and roof, interior marble and slate, bluestone, terrazzo work, tile work, kalamein doors, tin-clad doors, roof ventilators (W. F. Hirschman Co.), slag roof, slate roof, metal lath, plastering, caulking, oak flooring, cork

tile floors, 4 stories and basement, 194x56 feet, wing 80x82 feet (plumbing, heating, electric, kitchen equipment, refrigerators reserved). Architects taking bids.

Specification No. 5815, Navy Department, Washington, D. C. Owners, Department of Yards and Docks, Navy Department, Washington, D. C. Owners taking bids due February 6th, 11 A. M., for steel roof on an elevated steel water tank, Naval Ammunition Department, Fort Mifflin, Pa. Deposit, \$5.

Post Office, Newark, Del. Architect, James A. Wetmore, United States Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Low bidders: Samuel Pasquale, Washington, D. C., \$51,000, add \$3,100; Richard R. Gove Co., 1712 Ludlow street, Philadelphia, \$51,764, add \$1,560.

School, Georgetown, Del. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Engineers, Delaware School Auxiliary, DuPont Building, Wilmington, Del. Owners, Delaware State School Board, Dover, Del. Brick, concrete, steel, 2 stories and basement, 245x81 feet, wing 50x71 feet, slag roof, cement and maple floors, ornamental iron, limestone (heating, plumbing and electric separate). Owners taking bids due February 8th.

Miscellaneous Contracts Awarded

Internal Revenue Building, Washington, D. C., \$5,799,000. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Washington, D. C. Stone, reinforced concrete, brick, granite, marble, steel, 7 stories and basement, 185,000 square feet, 22x199 feet (elevators reserved), composition, slate and tile roof, cement floors, hollow tile, safety treads, metal weather strip, metal lath, tile, marble, terrazzo work, rolled steel sash, hollow metal floors, bond, iron stairs, ornamental iron work, area gratings, excavation, membrane waterproofing, flagstone, vault doors, integral waterproofing, caulking, bronze work, bronze grills, mastic composition, cork tile floors, pine floors (plumbing, heating, electric, ventilating separate bids). Contract awarded James Baird Co., 1800 E street, N. W., Washington, D. C.

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C., \$650,000. Architect, George A. Didden, Bond Building, Washington, D. C. Owners, Georgetown University, Thirty-seventh and O streets, N. W., Washington, D. C. Brick, steel, limestone, 5 stories and basement, 284x100 feet, slate, tile and slag roof, cement floors, cast stone, metal lath, tile work, bond, ornamental iron work. Contract awarded Arthur Smith, Washington, D. C.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 23, 1929. Sealed bids will be opened in this office at 3 p. m., March 27, 1929, for the construction (except elevators) of the Department of Commerce Building at Washington, D. C. The building will be approximately 274,000 square feet ground area; seven stories and basement; fireproof construction; stone facing. Not exceeding six sets of drawings and specifications will be furnished to bidders upon application therefor, when such application is accompanied by a deposit of \$200.00 for each set to insure its return. Checks should be drawn to the order of the Treasurer of the United States. All prospective bidders are hereby notified that any bid submitted in response to this advertisement must be accompanied by a statement of facts in detail of the business and technical organization of the bidder available for the contemplated work, including financial resources for such part of the work as is not provided for by the stipulation in Article 16 of the Standard Government Form of Construction Contract to be used, and building experience. The United States expressly reserves the right to reject any bid in which the facts as to business and technical organization, financial resources, or building experience, compared with the project bid upon, justify such rejection. The successful bidder will be required to furnish a performance bond of 50% of the contract price, but in no case less than \$7,000,000. JAS. A. WETMORE, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 23, 1929. Sealed proposals will be opened in this office at 3 p. m., March 27, 1929, for furnishing all labor and material necessary for a complete elevator and dumb waiter plant in the department of commerce building, Washington, D. C. All prospective bidders are hereby notified that any bid submitted in response to this advertisement must be accompanied by a statement of facts in detail of the business and technical organization of the bidder available for the contemplated work, including financial resources and

building experience, etc. The United States expressly reserves the right to reject any bid in which the facts as to business and technical organization, financial resources, or building experience, compared with the project bid upon, justify such rejection. The successful bidder will be required to furnish a performance bond of 50% of the contract price. Drawings and specifications may be obtained from this office. JAS. A. WETMORE, Acting Supervising Architect.

AS EDITOR SEES IT

The Philadelphia Building Congress Industrial Group Conferences has just issued Document No. 1, "Architectural Woodwork," covering the completed millwork report. This first report of the Industry Group Conferences, if seriously studied and followed, will help greatly in establishment of good local practices. The report is most comprehensive and is a consummation of painstaking efforts on the part of the members of the conference representing the Philadelphia Chapter, American Institute of Architects, the Sash and Door Manufacturers Association of Philadelphia and Vicinity, the Philadelphia Builders' Exchange and Employers' Association, the Philadelphia Chapter Associated Contractors, the Retail Lumbermen's Association of Philadelphia, the Master House Painters and Decorators Association, the Philadelphia Building Congress.

Scope and Summary of the Recommendations

This report constitutes a digest of the agreements arrived at regarding the varied recommendations and suggestions which have been discussed at the many meetings of the Conference and its sub-committees during the past two years, and which have resulted also from correspondence and consultation with experienced architects, engineers, craftsmen and other authorities. While the work embraced the gathering of informative data valuable alike to architect, draftsman, specifier, builder, and millman, it revealed considerable difference of opinion and indicated, as work progressed, the need for such agreement on general principles in order to relieve the confusion, misinterpretation

and irregularity which was found to exist. It also developed the fact that while the conference was called primarily to discuss Millwork the subjects of lumber and the uses of wood as well as priming and painting were so closely allied with good architectural woodwork that the recommendations of the lumber industry and the painting industry were sought and are referred to herein, but will each, it is expected, be more fully covered in later documents.

Structural Lumber and Carpentry

The items which should be specified under this heading and excluded from Millwork are listed in order to conform to local custom. Brief reference is also made to the American Lumber Standards, U. S. Department of Commerce, as a basis for desirable local lumber usage.

Kinds of Millwork

It is worthy of note that the Recommendations in this Document, although emanating from a conference chiefly concerned with Interior and Exterior Millwork produced especially to conform to architects' specifications and details, embrace in addition to such true millwork, interior and exterior stock woodwork and millwork—both available to those erecting buildings with or without the services of architects or of local millmen—in many species and in American Standard lumber and moulding sizes. There is also included recommendations as to species for specific uses in (1) Interior and Exterior Millwork proper, (2) Interior and Exterior Stock Woodwork and Millwork, which are offered not only to provide a reasonable range and variety in the choice of woods, but also to cover use for positions involving special or severe conditions of wear and weathering.

Stairwork Not Included

It is to be noted that stairwork is not included. Stair building, although substantially a classification of general millwork, has developed locally as a specialized craft, and should be specified separately under "Stair-work," including stair carriages, distinct from the Millwork Specifications.

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Cabinet Work Not Included

It is also to be noted that Cabinet Work, though possible of inclusion, is not made a part of this Document. When of any considerable extent or specialized nature, it should be classified under a separate heading. Otherwise when included under Millwork, it should be clearly described.

Detail Drawings and Workmanship

Irrespective of the care and choice of species for specific uses, the assembly and installation of millwork when improperly detailed, inadequately specified or in the hands of untrustworthy millmen or workers can be so faulty as to nullify any preconceived superiority of species. On the other hand, proper attention to details and good workmanship can provide comparable service, finish and beauty for any of the woods reasonably appropriate for the position and use.

Economies Through Accurate Estimating

The information supplied by comprehensive details in connection with the estimating drawings not only conduces to economies in estimating, but also tends to make the estimated cost more comparable to actual construction costs. For the reason that such drawings for the estimator as well as for the millworker and erector are too often slighted, and cost "contingencies" thereby developed, the actual value to all concerned of complete details, consistent with the specifications, cannot be over-emphasized.

Small Scale Details

In lieu of full size or large scale details being furnished at the time of estimating the general character of all millwork or special work, even though comprehensively covered by specification, should be indicated by typical details at a scale of not less than $\frac{3}{4}$ " on the working drawings. These should include all features such as door and window frames, doors and sash, eaves, cornices, and other exterior millwork, interior finish and trim, mantels, dressers, cupboards, cases, etc.

Contract Drawings and Specifications

The Contractor for Millwork should have in his possession a complete set of blue prints of the working drawings in addition to all detail drawings for Millwork and related accessories, together with a complete copy of the General Specifications.

Care and Handling of Millwork and Woodwork

All Millwork and Woodwork should be protected from the weather while in transit from the point of production or fabrication to the job; and when delivered at the site should be immediately placed under cover and be well protected from the weather. Such material should not be stored within structures in process of

plastering, nor until such plastering is reasonably dry. Should it be necessary to deliver such material prior to the drying out of the building, a special clause should be inserted in the specification requiring the General Contractor to properly protect the same by tarpaulins or other suitable waterproof cover.

Attention is directed to "Seasoning, Handling, and Care of Lumber (Consumers' Edition)", recommended by the U. S. Department of Commerce.

"Lumber, Carpentry and Millwork"
Classifications by sub-divisions

With respect to the lumber and millwork to be employed in a structure, the following sub-divisions of the specification on "LUMBER, CARPENTRY & MILLWORK" are recommended:

- A—Structural Lumber and Carpentry;
- B—Interior and Exterior Millwork (Architectural Woodwork);
- C—Interior and Exterior Stock Woodwork and Millwork;
- D—Stairwork;
- E—Cabinetwork.

Each classification should be, wherever practical, specified separately under its own heading. Obviously, however, when but few items of stock millwork are to be included they may be combined with one of the other sub-divisions.

A. Structural Lumber and Carpentry

This shall include all rough and surfaced lumber such as needles, shoring, timbers, piles and piling, posts and forms, columns, girders, beams, joists, rafters, plank, sub-flooring, sills, studs, plates, girts and caps, furring, grounds, bucks, sheathing, roofers and lath. (Siding, ceiling, flooring or other finished items normally carried as stock by lumber dealers, are referred to under Classification C.)

Grades and Sizes

All lumber and the heavy timber should be specified in terms of commercial grades conforming to the basic grading provisions, and in the sizes given in the last edition of American Lumber Standards, U. S. Department of Commerce Simplified Practice Recommendation No. 16—"Lumber"; copies of which may be had by addressing the Congress, 705 Otis Building, Philadelphia.

B. Interior and Exterior Millwork
(Architectural Woodwork)

This shall include all architecturally designed members and assemblies in wood essential to appearance, enclosure, utility and similar purposes, other than items mentioned under Classification A, and other than "stock" items later listed under Classification C.

Seasoning

All interior millwork should be kiln-dried; exterior millwork may be either

thoroughly air-dried or kiln-dried. (Preferably air-dried.)

Sizes and Shapes

The dimensions and patterns of interior and exterior millwork should be clearly indicated in the specifications and shown in the detail drawings. The nominal and dressed sizes of all detailed millwork in the Philadelphia District should conform to the American Standard "Industrial" thicknesses and widths, as follows:

1"	nominal to finish, dressed, 13/16"
1 1/4"	1-1/16"
1 1/2"	1-5/16"
2"	1 3/4"
2 1/2"	2 1/8"
3"	2 5/8"
4"	3 5/8"
6"	5 5/8"

Kinds and Quality of Woods

The wood to be employed for all interior and exterior millwork, such particularly as finish, trim, window and door frames, sash and doors, cornices, built-up and solid columns, etc., should be clearly described by the specifications or on the detail drawings, or both, preferably allowing comparable choice in accordance with the Table of Specific Purposes in these Recommendations, and the "defects" and "blemishes" permissible for the specific uses may be as follows—unless otherwise stipulated:

- 1—The visible portions of all interior or exterior Millwork that is to be painted may contain small surface checks (maximum length 4"); pin wormholes (maximum diameter 1/16"); slight (removable by hand) machine defects; sound, tight pin knots (maximum diameter 1/2"); small pitch pockets or streaks maximum length 2"); and light stain.
- 2—Woodwork when not visible, such as backs and insides of window boxes, backing of door frames, etc., may contain, in the interest of economy and conservation, defects which are not permissible in visible work. In cases where interior or exterior Millwork is to be stained or natural finished, only such defects and blemishes should be allowed as will not detract from the finished appearance. Sapwood should be prohibited for exterior woodwork exposed to the weather when either painted, stained or left natural. Bright sapwood for interior work is no defect, but in species where sapwood stains are not removable by machine all such wood shall not be used without specific approval of the architect. In those woods having a marked difference in color between heartwood and bright sapwood, specifications should state whether unselected or, if not, which is required.

Built-up Columns

For exterior built-up, specially detailed, columns, it is essential that the wood should be selected for durability of species, such as heart white pine, heart red cypress or heart yellow poplar. As in the case of very large columns, a clear stock would mean great expense, the architect should use his judgment as to whether or not he will specify "small tight knots no defect" accepting such knots up to 1" in diameter and not too close together.

Exterior Hardwoods

In the use of hardwoods for exterior work, the architect should give heed to their behavior under various weather conditions and consider their characteristics such as checking, warping and twisting as well as the proper use of weather resisting varnish. Of all the hardwoods in use, the white oaks have the greatest resistance to decay. However, if white oak is used, it should be especially well seasoned, remembering also that the thicker the wood the longer it takes to cure and the more readily it checks.

When door frames are made of oak or other hardwood the thickness of this wood should not be more than $1\frac{3}{4}$ " and if thicker a backing of other wood should be used.

Veneered Exterior Doors

Should the architect decide to use exterior veneered doors, then the veneer should be at least $\frac{1}{4}$ " thick and should be put on with water resistant glue. Such doors should be so detailed that all members will shed, and not retain water. All edges of doors should be protected as described under Painting and Varnishing on Page 8. In the case of exterior veneered doors it is even desirable to protect the top edge by metal. In this connection the practice of the Philadelphia Board of Public Education is of interest, the following being quoted as its specification requirements "The top edge should be covered with a copper weather cap (furnished by the Hardware Contractor), the same being formed with sharp corners, the exact thickness of the door, completely covering the full width of the door on top and $\frac{3}{4}$ " down on each side and ends, where it shall be turned into recess in door and fastened with small brass screws spaced 4" on centers."

Construction of Sash for Exterior Windows

It is best practice to mortise and wedge all rails through stiles and to double pin all corners, also to mortise and pin vertical mullions to rails and to white lead or glue joints of sash and muntins, before assembling, as a preventative against decay. When an architect specifies, or a purchaser stipulates, that "Recommendations of the Philadelphia Building Congress Document No. 1 on Architectural Woodwork shall be followed," it will

mean that no less secure method of putting sash together will be acceptable.

For additional strength it is recommended that a lug or drop be provided at bottom rails of upper sash or the meeting rail dovetailed into stiles.

It is also recommended, where sash locks are to be installed, that stops be specified to be placed in the top of pulley stile at either side thus preventing the sash lock from marring the inner head of frame when lower sash is raised full height.

When weatherstrip is not specified the underside of the bottom rail of the lower sash should be grooved or rabbetted over the lip of the sill, or otherwise so detailed and made as to afford a break against water penetration.

Window Sills and Tongued Casings

All sills for window frames of a sash width of 3 feet 4 inches or over should be $2\frac{5}{8}$ " finished thickness. Sills for smaller windows should be $1\frac{3}{4}$ " finished thickness unless required to be thicker to conform in appearance, to adjacent frames. The underside of all wood sills should be ploughed or grooved and be backed with masonry as soon as the frame is leveled and set.

The tongues on all casings when let into jambs should be $\frac{3}{8}$ " and the jambs ploughed sufficiently to receive same.

Wind and Water Breaks

If window boxes in "plank front" construction are not detailed with the outer or inner lining projecting into the masonry, other provisions should be made with $\frac{7}{8}$ " by $1\frac{5}{8}$ " wood strips nailed on backs of such boxes and on door frames, or metal fins may be shown and called for specifically—either under millwork or under metal work, for interrupting the free passage of air and water by this means, plus mortar applications. These methods will effect considerable saving of fuel and add greatly to comfort.

Window Boxes and Sash Weights

Many architects or millmen have at some time in their experience been called upon to substitute lead weights for cast iron in window boxes which have been detailed or made too small for adequate weights of iron. This should not be the case with proper knowledge of the circumstances.

The maximum standard sizes of flat cast iron sash weights are: $1\frac{1}{2}$ "x $2\frac{1}{4}$ "x36" and the dead weight is approximately 30 lbs. Therefore for all large or heavy sash the depth of weight pocket should not be less than $2\frac{1}{2}$ " and the pulley stile opening to pocket should be at least one-third ($\frac{1}{3}$) of the height of the window opening.

Staff Beads and Calking

To accommodate calking between "staff beads" or "reveal moulds" and masonry

jambs it is recommended that details show special grooves or ploughs for this purpose or indicate that such moulds are to be secured at a sufficient distance from the masonry to allow for calking, which cannot be properly applied otherwise. When spaces between boxes and masonry are to be packed or calked the fact that staff moulds are to be loosely attached for later removal should be covered in the specifications for Carpentry and for Calking as well as under Millwork and Painting and provision be made for the re-applying and re-nailing of mouldings by the Carpenter before final painting.

Sash Pulleys

Care should be taken in mentioning whether sash pulleys are "stock" or "special." It is the custom of local mills to include stock pulleys only. When special pulleys are intended they should be specified under "Hardware," but a reference to this fact should be inserted in the millwork specifications.

Plastered Jambs and Plaster Grounds

When the window jambs or door jambs are plastered into the frame, or casing, this fact should be mentioned in the millwork specifications as well as under Plastering, in addition to being shown on the detail drawings.

All plaster grounds, (which are items of carpentry and not millwork), should be detailed and set back $\frac{1}{2}$ " from outside edge of door and window trims and $\frac{1}{2}$ " below the top edge of bases, etc.

C. Interior and Exterior Stock Woodwork and Millwork

This shall include all flooring, siding, ship-lap, ceiling, tongued and grooved boards, or other items normally carried in stock by lumber dealers, and not architecturally designed as millwork proper.

Grades and Sizes

The quality and size of interior and exterior Stock Woodwork and Millwork should be described in terms of American Standard Association lumber and moulding grades, sizes, designs, and patterns, the grades to be determined by whether the wood is to be painted or finished natural.

Seasoning

All interior Stock Woodwork and Millwork should be kiln-dried; exterior Stock Woodwork and Millwork may be either thoroughly air-dried or kiln-dried. (Preferably air-dried.)

Thickness

The dressed thicknesses for all Stock Woodwork should be not less than the "Commercial" thickness prescribed by the American Lumber Standards, which is $\frac{1}{32}$ " less for one inch than the "Industrial" thickness referred to previously.

Stock Finish

The sizes and designs of Stock Trim and Mouldings should be in accordance with the American Standard 7,000 Series.

Painting and Varnishing of Millwork and Woodwork

All exposed knots in interior and exterior Millwork and Woodwork should be well shellacked before painting. All interior Millwork to be painted should be given one coat of shellac, especially so for resinous woods or when poplar is used—with white sap no defect. All outside woodwork to be painted should receive not less than three coats of paint of the quality called for by the painting specification, and all interior work not less than two coats of paint of the required quality in addition to priming.

The top, bottom, and edges of exterior and interior doors should be thoroughly painted or varnished using waterproof paint or varnish for exterior doors and for interior doors in basements or places where dampness might be encountered. Parts of Millwork inaccessible when in position such as the backs and sides of window frames and solid door frames, the undersides of all sills, etc., or woodwork in contact with plaster or masonry, should be thoroughly painted—preferably two coats—before placing.

All surfaces to be painted should be thoroughly dried to avoid subsequent blistering and/or discoloration. Painting should not be done on frosted surfaces, nor during inclement or excessively humid weather.

Because of the tendency of the grain in some woods, such as fir or cypress, to raise if subjected to humidity before paint or other finish is applied, it is important that no time should be lost before the first coat of paint or finish is applied to such woods at the mill or at the site. Because of the objection which has been brought forward by some regarding the tendency of paint to peel from certain woods, such as cypress, when used for exteriors, it is recommended as an easy remedy that a highly solvent or penetrating liquid be applied to cut the sap or grease in such woods. For this purpose, the priming coat should contain 15% liquid amount of toluole or benzole, with the usual amount of drier. Yellow Pine or Long Leaf Pine containing an excess amount of rosin should be treated in the same manner.

To the conference representatives and compilers of this Document, the difficulty has been apparent of so preparing the recommendations which it contains that they will be fully applicable to all local conditions and to materials available. As now submitted, it is hoped that they will not only afford the basis for a better understanding of good millwork and of conditions surrounding estimating, manufacturing and installing of same at the pres-

ent time, but be the means of developing further improvements in the future.

All users of this Document will confer a favor upon the Conference and the Congress if they will report any disagreements or omissions or make suggestions for better methods or means of stipulating any of the recommendations which may develop through their experience in the use of this Document. Any corrections or improvements which the practical application of this Document may disclose as desirable may be included in any subsequent edition. All such suggestions and requests for copies should be addressed to

H. J. BARINGER,
Secretary Philadelphia Congress,
705 Otis Building, Phila., Pa.

Tables of specific purposes and kinds of species recommended for interior and exterior millwork (architectural woodwork) are a vital part of the Conference reports and will serve a most useful purpose.

DOMESTIC AND FOREIGN TRADE
OUTLOOK

By DR. JULIUS KLEIN, *Director, Bureau of Foreign and Domestic Commerce, Department of Commerce*

The year 1928 closed with domestic business larger than ever before and foreign trade in exceptional volume, and there is every indication that the high levels of recent months will be carried into the New Year. The output of farm crops during 1928 was about 5 per cent. larger than in the preceding year, and industrial production showed an even greater increase. Exports of merchandise were larger than in any year since 1920, exceeding five billion dollars.

The automotive and construction industries continued throughout 1928 to be the back-log of America's prosperity. Automobile production was larger than in any earlier year and contracts for future construction showed a substantial growth. The activity of these industries has resulted in a greatly increased demand for many related products such as steel, cement, rubber tires, and refined petroleum.

The heavy outflow of gold in the first half of 1928 resulted in a considerable change in the money situation. Partly as a result of this reduction in our gold stock but more largely as a consequence of the extraordinary activity of the stock exchanges, rates for call money and for stock-exchange time loans advanced sharply. Bank credit for commercial purposes, however, has continued in ample supply at rates only slightly higher than a year ago; while open market rates for commercial paper have shown a somewhat greater advance.

Wholesale distribution showed little

change in volume, but sales of many different types of retail establishments increased in 1928. Sales of mail-order houses and various kinds of chain stores had a particularly large growth but this was partly due to an increase in the number of stores operated. Department store sales also increased and there was a considerable reduction in the size of their inventories.

Further progress has been made in the elimination of waste and in the increase of business efficiency. During recent years there have been marked increases in the per capita output of the manufacturing industries and of agriculture and efforts are now being made to improve the efficiency of distribution which is still relatively wasteful.

There has been no considerable accumulation of stocks of commodities, and the general level of wholesale prices has shown comparatively little change. Increases in prices of hides and leather, food, building materials, metals, and fuel and lighting slightly more than offset declines in prices of other groups of commodities.

Wages continue at a high level, and the unemployment which was noted in the early part of 1928 has been reduced to a minimum. Factory employment was increased for the first time in a number of years; gains were particularly noteworthy in the automobile, rubber tire, iron and steel, petroleum, and nonferrous metal industries. Mercantile establishments, hotels, and the automotive distributing and service industry also absorbed many additional workers as in other recent years.

The great increase in production and sales of automobiles during the past year has had far-reaching effects on many other lines of domestic business. The automobile has been the most important single factor in the expansion of our export trade. A total of over four and one quarter million passenger cars and trucks were produced in 1928, which was about one-fourth more than in 1927. It is an indication of the yet unsatiated demand for automotive vehicles both in this country and abroad. There were also marked increases in output of rubber tires, gasoline, steel sheets, and many other industries which sell their products to automobile manufacturers or car owners.

Construction operations which declined slightly in 1927 showed another large expansion during the year just finished. Contracts for new construction increased in value by almost 7 per cent., as larger awards for residences, industrial buildings, Public Works and Utilities and Educational Buildings more than offset the decreases in other types of construction. These expanding operations resulted in a larger output of structural steel, brick,

cement, and many other building materials. Lumber cut, on the other hand, decreased for the third successive year.

The iron and steel industry reflected to a marked degree the stimulus of increased demands from building contractors, automobile factories, and manufacturers of many types of machinery. Prices showed a moderate advance and output of crude steel, sheets, structural shapes, and many types of finished products was substantially increased. Unfilled steel orders were higher in every month than in the corresponding period a year earlier.

The copper industry which has been undergoing a prolonged period of readjustment in recent years, partly a result of after-effects of the war and partly caused by improvements in technical processes, had a marked recovery during 1928. Copper prices advanced steadily throughout most of the year and stocks of refined metal were greatly reduced. Production of smelters, and refineries was larger than in any earlier year.

Agricultural output has shown almost as great an increase as manufacturing during the past year. The total land used for all crops harvested was larger by about 8,000,000 acres than in 1927 and the aggregate production increased approximately 5 per cent. The average of farm prices showed little change; prices of meat animals, dairy products, and poultry products advanced, while quotations for grains, and fruits and vegetables receded.

Although the textile industries as a whole have failed to share in the widespread prosperity during the greater part of the year, signs of increasing activity became evident toward the close of the year. Prices of textile products showed a moderate recession during 1928 and mill consumption of both cotton and wool declined as compared with 1927. Silk mills, on the other hand, were somewhat more active.

The world-wide improvement in business conditions in recent years is indicated by the steady expansion in the exports of other nations which has rather closely paralleled the growth of our own trade. The combined figures of 10 leading European countries for the first nine months of 1928 show an increase of 5 per cent in value of exports as compared with the corresponding period of 1927. The fact that this expansion is relatively greater than that of the exports of the United States is evidence of the further economic recovery of Europe. Of the 10 countries, only Sweden and Finland had smaller exports than in 1927. Germany's trade showed an especially marked growth.

The exports of countries outside of Europe reached about the same aggregate value as in 1927. Canadian exports in the first nine months of 1928 were 6 per

cent. larger in value than a year earlier, while the total value of exports of four important Asiatic countries declined by 3 per cent., chiefly as a result of the decrease in price of rubber and silk.

The total value of our exports of merchandise increased about 3 per cent. in 1928 and was larger than in any of the seven preceding years. As the average prices of commodities exported was unchanged, the change in value of the trade measures quite accurately the change in its physical volume. Exports of wholly and partly finished manufacturers comprised about three-fifths of the total trade (twice as large a proportion as in 1896-1900.) The size of exports of this type of merchandise is determined very largely by the extent and effectiveness of our sales efforts. The further substantial growth of our exports of these fabricated products in 1928 indicates once again our ability to compete successfully with other industrial nations.

Exports of finished manufactures have been steadily expanding for six years and in 1928 were about 70 per cent. higher in value than in 1922. The most marked growth during the past year occurred in the exports of automotive products which reached a total value of almost \$500,000,000 (according to 10 months figures) and were about one-fourth larger than in 1927, the best previous year.

During the past six years the value of our automotive exports has increased by about \$300,000,000 or more than 150 per cent. As the purchasing power and standard of living of other nations shows further improvement, it is probable that there will be yet greater demands from abroad for American automobiles. Marked gains have also occurred in recent years in our exports of many other fabricated commodities—industrial machinery, agricultural implements, office appliances, rubber tires, and cutlery.

Exports of semi-manufactures continued to show a steady growth in 1928, owing to larger sales of copper, iron and steel products, and leather in foreign countries. Exports of copper were about 7 per cent. larger in quantity during the first ten months of 1928 than in the corresponding period a year earlier. This increased demand from abroad was accompanied by a steady advance in the price with the result that the value of exports was 15 per cent. greater than in the preceding year.

The value of crude materials exported was also larger than in 1927, in spite of a smaller movement of coal, largely because the exports of cotton, tobacco, and undressed furs increased.

Exports of crude foodstuffs were materially reduced, as the movement of wheat and rye was much smaller than a year earlier. Trade in manufactured foodstuffs, on the other hand, showed comparatively

little change in value, since a marked growth in exports of canned fruits offset declines in the values of flour and meat abroad.

Consideration of the geographic distribution of the trade indicates that exports to all continents except Oceania increased in 1928. Exports to Canada increased 8 per cent. and that country advanced to first place in our trade. Much of this gain resulted from larger shipments of automobiles, agricultural machinery, and other manufactured articles.

Exports to Asia showed an even greater growth, amounting to about 12 per cent., as a consequence of largely increased shipments to China, Japan, and the Philippine Islands. Exports to China were about one-half again as large as in 1927, owing to a marked expansion of sales of illuminating oil, leaf tobacco, cigarettes, and many other manufactured products as a result of improved conditions in that country.

Shipments to South America have also continued their upward trend and reached a total value more than twice as large as in 1922. Practically all of the growth occurred in our trade with Argentina, Brazil, and Colombia, which were already our largest customers on that continent. The increased purchases of South America as in other recent years consisted largely of manufactured articles—automobiles, machinery, iron and steel products, and gasoline.

The total value of American exports to Europe was about the same in 1927 as in the previous year, the principal changes being increases in shipments to Italy, Russia, Sweden, Spain, and Poland which were about equal to the aggregate decreases in value of trade with the United Kingdom, Germany, and Denmark. The increase in exports to Italy and Russia and the decrease in exports to Germany were both ascribable largely to changes in the value of shipments of raw cotton, while the most important cause of the decline in exports to the United Kingdom was a reduction in wheat shipments. The larger part of the increase in Swedish trade and also of the decrease in Danish trade resulted from changes in the quantity of automotive products shipped to those countries and apparently represented in large part a decrease in Swedish purchases of American cars assembled in Denmark.

Demand for American manufactures continues to increase in Africa and has caused a steady expansion of our trade with that continent. Exports to Oceania which also consist largely of fabricated goods have, on the other hand, been declining as a result of smaller sales to Australia which has suffered a reduction of buying power owing to the relatively low price of some of its staple products.

(Continued next week.)

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard Sts., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

S. Libman, 629 Cottage Ave., Pittsburgh, Pa.
Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub. Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIREPROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING-COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

GUARDS (Machine and Engine)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.
Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

Simpson-Anderson Co., Widener Bldg., Phila.
Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co., 2500 Duncan St., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

Whartenby, Harry A., 1823 Brandywine St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

LUMBER

Ketcham, Howard, 3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

MARBLE AND MOSAIC

Belf Bros. Co., 1923 Market St., Phila.
Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.
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Ketcham, O. W., 121 N. 18th St., Phila.

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Weber, F., Co., 125 S. 12th St., Phila.

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Foundation & Construction Co., 1320 Race St., Phila.

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California Stucco Products Co., 1316 Olive St., Phila.

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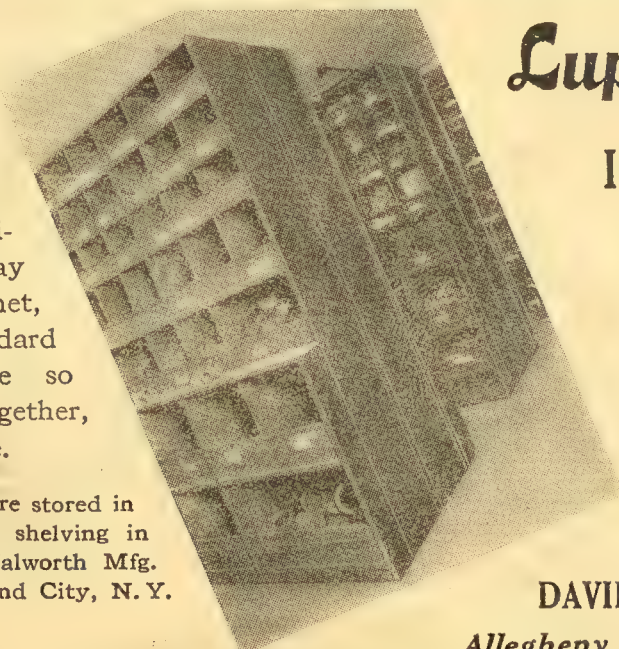
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Entered at the Philadelphia Post Office as Second-Class Matter

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February 6, 1929

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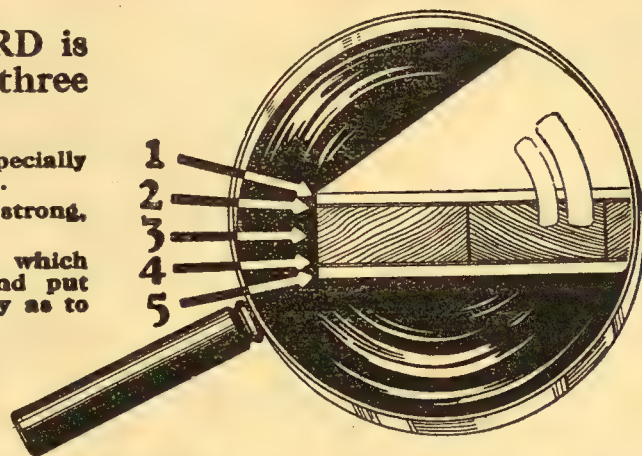
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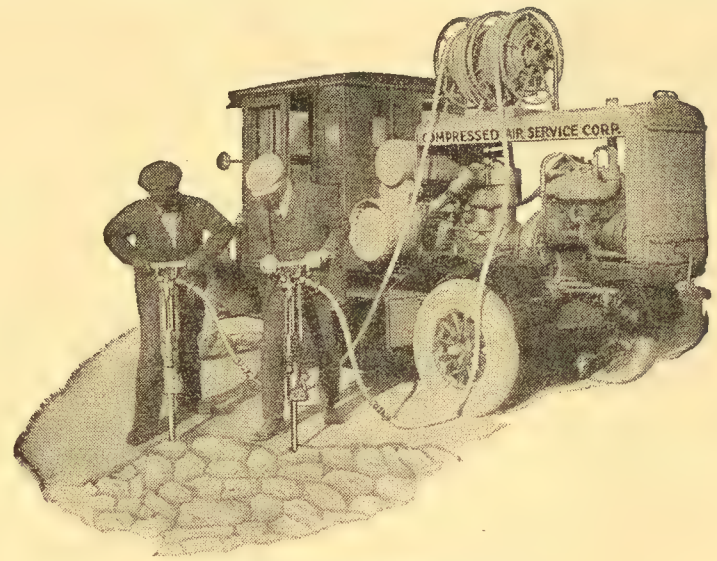
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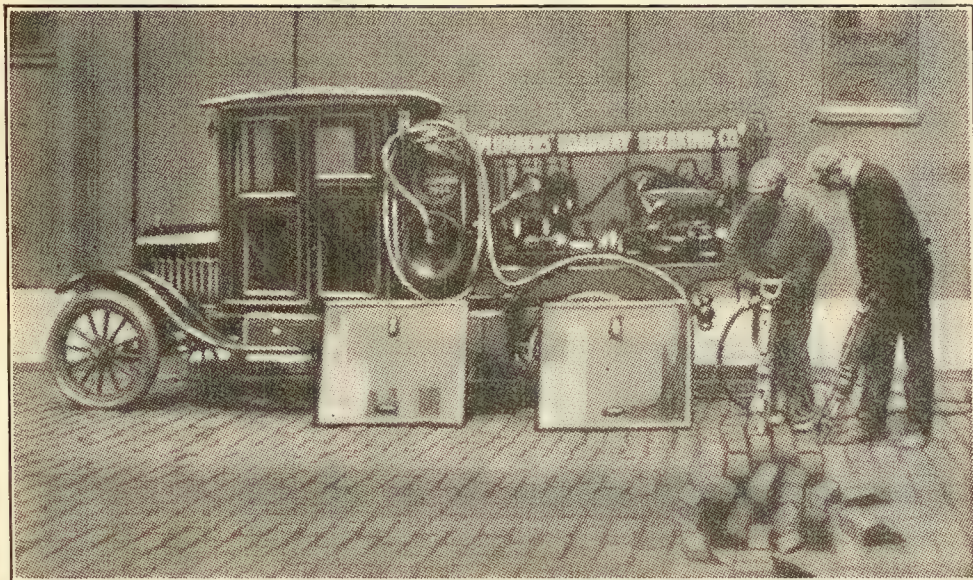
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 6

Engineering and the Building Trades

PHILADELPHIA

February 6, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment (alts. and add.), 1737 North 18th street, Philadelphia. Architect, Clarence L. Caspary, 6th floor, 1701 Walnut street, Philadelphia. Owner, Milton T. Rosenheim, care of architect. Changing residence to 6 apartments, 3 story addition, 12x10 feet, brick, cinder block, hot water heat, electric light, tile work, hardwood floors, plumbing. No oil burners or electric refrigeration. Architect ready for bids Feb. 11th, 2 P. M.

Alterations to 5th Floor of Record Building, for Show Room, Broad and Callowhill streets, Philadelphia. Architect, Clarence L. Caspary, 6th floor, 1701 Walnut street, Philadelphia. Owners, Lob-Hubbart, Inc., care of architect. Plaster partitions, metal lath or pronto board, linoleum, wall finish, cabinet work, painting. Architect will be ready for bids in a few days.

Residences (2), Northwest corner 66th and Callowhill streets, Philadelphia. Owner, Joseph Salvucci, 512 North 65th street, Philadelphia. Stone, 2 stories, 32x42 feet, slate and tile roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Owner taking bids due Feb. 7th.

Gymnasium Building, 4278 Griscom street, street, Philadelphia. Architect, Richard J. O'Donnell, 963 Allengrove street, Philadelphia. Owners, Isabelle Council K. of C., care of John Nulty, Frankford avenue and Church street. Brick, limestone, steel, 1 story and basement. Architect taking bids due Feb. 14th.

Residence and Garage, Montgomery road and Paper Mill road, Chestnut Hill, Pa. Architect, R. Brognard Okie, 306 South Smedley

street, Philadelphia. Owner, Paul E. Sutro, East Thompson and Clearfield streets, Philadelphia. Stone, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, tile work, bond, ornamental iron work. Architect taking bids due Feb. 11th.

Commercial Building, 52 West Cheltenham avenue, Philadelphia. Architect, Paul M. Hesser, 225 South 6th street, Philadelphia. Owner, Joseph Farras, 60 West Cheltenham avenue, Philadelphia. Brick, steel, 2 stories, 22x160 feet, slag roof, cement floors, vapor heat, electric light, rolled steel sash. Architect taking bids due Feb. 14th.

Garage, 2235 North 10th street, Philadelphia. Architect, Peter Kuhn, 3058 North 8th street. Owner, Raymond Foehl, 2235 North 10th street, Philadelphia. Brick, steel, 1 story, 50x100 feet, slag roof, plumbing, steam heat, rolled steel sash. Architect taking additional bids due Feb. 8th.

Store and Offices, Southeast corner Broad and Tasker streets, Philadelphia. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Mastbaum Bros. & Fleischer, 1424 South Penn square, Philadelphia. Lessees, Philadelphia Gas Works, Broad and Arch streets, Philadelphia. Aqueduct, brick, 2 stories and basement, 38x114 feet, built-up roof, terrazzo floors, vapor heat, electric light. Architect taking bids due Feb. 18th at noon.

Factory (add.), State road and Rhawn street, Philadelphia. Architects, The Ballinger Co., 12th and Chestnut streets, Philadelphia. Owner, J. J. Nesbitt, on premises. Brick, 1

story, 108x142 feet, steel trusses, sawtooth, slag, gypsum roof, cement floors, plumbing, heating, electric work. Plans about completed. Architect ready for bids in a few days.

Office Building, 1424 Walnut street, Philadelphia. Architect, R. C. Bencker, 13th and Chestnut streets, Philadelphia. Owner, Jos. Bernhard, Northeast corner 13th and Chestnut streets, Philadelphia. Limestone, brick, steel, 2 or 3 stories, 26x185 feet. Architect taking bids due Feb. 12th at 1 P. M.

Apartment House, Fifty-first, North of Woodbine street, Philadelphia. Architect, private plans. Owner, Edward Pearl, 5929 Belmawr avenue, Philadelphia. Brick, steel, terracotta, 4 stories, 108x155 feet, 50 apartments. Work contemplated.

Residences (2) (remodeling), 1922-24 Race street, Philadelphia. Owners, Philadelphia School of Design for Women, care of Judge E. O. Lewis, City Hall, Philadelphia. Remodeling for dormitory. Work contemplated.

Apartment House, Northeast Corner Fiftieth and Spruce streets, Philadelphia, \$650,000. Architect, private plans. Owners, Spruett Corporation, care of Samuel S. Silver, 229 South Fortieth street. Brick, steel, limestone, 4 stories and basement, 225x120 feet, steam heat, electric light, metal lath, tile work, ornamental iron work, slag roof, oak and yellow pine floors. Owners ready for sub-bids in one week.

Drexel Building (alts.), Fifth and Chestnut streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Drexel Estate, Fifth and Chestnut streets,

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Philadelphia

Philadelphia. Demolition, excavation, reinforced concrete, granite and marble work, brick work, hollow terra cotta, bronze work, slag roof (Barrett's), dampproofing (Toch Brothers), vault doors and frames, Campbell metal windows, metal lath, plastering, painting, glazing, hardware, tile work (plumbing, heating and electric reserved). Architects taking bids due February 11th.

Synagogue, Southwest Corner Fifty-second and Columbia avenue, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Shaari Zedek Congregation, care of A. D. Caesar, Esq., 1321 Arch street. Brick, cast stone, 1 story auditorium, rear 3 stories, 36x120 feet, asphalt roof, steam unit heat, electric light, tile work, steel sash, oak floors, interior wall finish, stained and leaded glass, church seat mill work. Owners taking bids due February 11th at noon.

Garage, Southeast Corner Sixth and Locust streets, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, H. Kattelman, on premises. Concrete, steel, 4 stories. Preliminary plans in progress. Work contemplated.

Residences (31), Sixteenth and Sparks streets, Philadelphia. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, name withheld. Brick, 2 stories, 15x42 feet, slag and slate roof, hardwood floors, cement work, garage in basement, hot water heat, electric light, metal lath, tile work. Plans in progress.

Church and School, Twenty-second and Clearfield streets, Philadelphia. Architect, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owners, Our Lady of the Eternal, Rev. F. Bernardo, on premises. Stone, 3 stories and basement, 62x140 feet, slag roof, maple floors, vapor heat, oil burners, electric light. Plans in progress.

Apartment House, York road and Hunting Park avenue, Philadelphia. Architect, A. N. Dobbins, 1718 Cherry street, Philadelphia. Owner, name withheld. Brick, cast stone, wood joist, 4 stories and basement. 120x50x60x120 feet, slag roof, hardwood, linoleum and Zenithern floors, electric elevators, door beds, kitchen and laundry equipment, incinerators, 36 apartments, vapor heat, electric light, oil burners, ornamental plaster. Preliminary plans in progress.

Residence and Garage, Henry avenue, North of Coulter street, Philadelphia. Architect, E. A. Wightman, Bankers' Trust Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 43x85 feet, slate roof, hardwood floors, vapor heat, oil burners, electric light, 4 tile baths, radiator grills, weather strip, cedar

room, driveway, wrought iron grating and railings, garage, tank and pump. Plans in progress. Architect will be ready for bids in two weeks.

Residences (24), Englewood, two blocks West of Frankford avenue. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Alfred Lechler, 4128 Castor avenue, Philadelphia. Brick, 2 stories, 15x42 feet, slag and slate roof, hardwood floors, cement floors, garage in basement, hot water heat, electric light, tile work, metal lath. Plans completed. Ready for sub-bids February 4th.

Bank Building (alts.), Southwest Corner Broad and South Penn Square, Philadelphia. Owners, Plaza Trust Co., care of John Henricks, Lincoln Building, Philadelphia. General interior alterations, bank fixtures, plastering. Owners taking bids.

Addition, Twenty-fifth and Westmoreland streets, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, Rosenau Brothers, on premises. Architect taking bids due February 11th.

Store and Office (alt.), Southeast Corner Eleventh and Chestnut streets, Philadelphia, \$8,000. Architect, private plans. Owners, United Cigar Stores Co., Elrae Building, Philadelphia. Permit issued.

Residences (58), Bennington, Lawndale streets, South of Pike street, Philadelphia, \$205,000. Architect, private plans. Owner, John T. Clasby, Jenkintown, Pa. Brick, 2 stories, 15x26 feet 2 inches, hot water heat, electric work, oak and yellow pine floors, tile work. Permit issued.

Residences (39), Ross street, South of Upsal street, Philadelphia, \$138,000. Architect, private plans. Owner, Frank R. Datesman, 5583 Old York road, Philadelphia. Brick, 2 stories, 14 feet 6 inches x 25 feet 6 inches, hot water heat, electric work, oak and yellow pine floors. Permit issued.

The Forty-Second Annual Banquet of the Philadelphia Builders' Exchange and Employers' Association will be held Wednesday evening, February 13th, at seven o'clock in the Manufacturers' Club.

Members will recognize this function as the Great Annual Event of the Building Industry of Philadelphia. This year will be no exception to the effort of the committee to make this banquet the biggest and best ever. The speaker of the evening will be John E. Edgerton, President of the National Association of Manufacturers. Mr. Edgerton is thoroughly imbued with the broad aspect of business, is a forceful speaker and has studied business and industrial problems in a comprehensive way all his life.

Tickets are \$5.00 each. Reservations will be made in the order of their receipt. Standard table seats ten. You may reserve a table for as few as five.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Aldine Trust Company Office Building, Southeast Corner Twentieth and Chestnut streets, Philadelphia. Architect, A. W. Hall, Fifteenth and Locust streets, Philadelphia. Owner, Richard J. Seltzer, Inc., agents, Fifteenth and Locust streets, Philadelphia. Brick, reinforced concrete, limestone, excavation, caisson foundation, steel, 2 stories and basement and sub-basement, 83x66 feet, cement floors, architectural terra cotta, tile, marble and terrazzo, bond, demolition, cinder block (Penn Building Co. or National Building Unit Corp.), Hydroseal waterproofing, granite curb, R. I. W. dampproofing, metal lath, plastering, caulking, tin-clad doors, kalamein doors, steel sash, iron stairs, sidewalk hoist, hollow metal windows (A. H. Pomeroy Co., Inc.), slag roof (Barrett), rolled steel skylights (D. Lupton Sons Co.), ventilating (Globe or Star), Kernerators, incinerators. Contract awarded F. V. Warren Co., 1913 Arch street, Philadelphia.

Restaurant Building, 1813-17 East Allegheny avenue, Philadelphia. Architect, R. A. Bencker, Thirteenth and Chestnut streets, Philadelphia. Owners, Horn & Hardart Co., 204 South Warnock street, Philadelphia. Limestone, Kasota stone, granite, steel, 2 stories and basement, 154x48 feet, bond, concrete and cement work, Master Builders' metallic floors, hardener, cement floors, Lapidolith (Sonneborn & Sons), waterproofing (Permanent Metallic Waterproofing Co., Wester Waterproofing Co.), structural steel (Straub or Pennsylvania Brick & Tile Co.) cinder block, caulking (A. C. Horn, Ev-Air-Tight, or Sterling), built-up roof (Carey or Johns Mansville), kalamein doors, roof ventilators, skylights, dampproofing (R. I. W. or Concrete Waterproof Paint Co.), plastering, metal lath, Bedford Indiana limestone, granite, Rytlil floors (Drehman Paving Co.), asphalt mastic floors, Douglas fire flooring, N. C. pine floors, acoustic Celotex ceiling, revolving doors (Van Kennel Revolving Door Co.), bronze work, metal toilet partitions, Sanymetal flush type partitions (alts.), sidewalk lift, hardware (Sargent or McKinley), miscellaneous iron work and stairs, hollow metal windows, rolled steel sash, hollow metal doors, marble, tile, terrazzo, slate, cork insulation. Contract awarded W. R. Dougherty, 1608 Sansom street, Philadelphia.

Service Station, Southwest Corner Erie and

F streets, Philadelphia. Architect, private plans. Owners, International Harvester Co., Construction Superintendent W. D. Price, 605 South Michigan avenue, Chicago, Ill., care of Mr. T. Henderson, 2905 North Sixteenth street, Philadelphia. Brick, stone, steel, reinforced concrete, 1 story and basement, 225x110 feet, gypsum and composition roof, concrete floors, Nateco hollow tile, roof ventilators, iron stairs, bond, steel partitions, fire doors, hollow metal doors, ramps, hollow metal sash, terrazzo work, metal lath (steam heating, ventilating, lighting fixtures, steel sash, glass and glazing, vault doors, wire screens, partitions reserved by owners), electric light. Contract awarded Stofflet & Tiltonson, Wesley Building, Philadelphia.

Jefferson Building (add.), Leiper and Foulkrod streets, Philadelphia, \$75,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Nineteenth and Arch streets, Philadelphia. Brick, limestone, steel, 2 stories and basement, 51x61 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile work, steel sash, bond, ornamental iron work. Contract awarded F. W. Van Loon, Perry Building, Philadelphia.

Stores (3), 6820 Torresdale avenue, Philadelphia. Architect, J. H. Rackie, 4341 Frankford avenue, Philadelphia. Owner, Joseph Lubbeck, on premises. Brick, 2 stories, 15x90 feet each, slag roof, hardwood floors, hot water heat, electric light, plate glass, metal bulks, cement floors. Contract awarded F. Kaiser, 4816 Summerdale avenue, Philadelphia.

Garage, East side Seventeenth, between Mellon and North streets, Philadelphia. Architect, private plans. Owner, Jules Dehon, care of architect. Brick, steel, 1 story and basement, 40x100 feet, slag and gypsum roof, cement floors, steam heat, electric light. Contract awarded P. Haibach Contracting Co., 1261 North Twenty-sixth street, Philadelphia.

Garage, Broad street, between Conlyn and Grance streets, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick and steel, 2 stories and basement, 110x190 feet, steam heat, electric light, rolled steel sash, slag roof, cement floors. Contract awarded Philip Hai-

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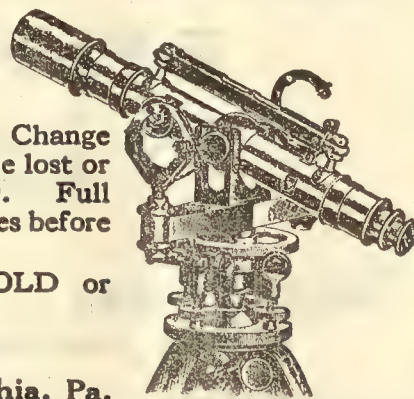
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bach, 1261 North Twenty-sixth street, Philadelphia.

Apartment House (alts.), Evergreen street and Crefelt street, Philadelphia. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owners, Chestnut Hill Apartments, on premises. New partitions, plaster, etc. Contract awarded Charles Bow-

man, Germantown and Willow Grove avenues.

Store and Residence (add.), Northeast Corner Sixteenth and Passyunk avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Jacob Kessler, on premises. Brick, 1 story, 12x17 feet. Contract awarded Joseph Goldfarb, 2523 South Reese street, Philadelphia.

Garage (add.), 1231-33 Gerritt street, Philadelphia, \$5,000. Architect, private plans. Owners, Mr. and Mrs. Joseph Caruso, 1238 Reed street, Philadelphia. Brick, 3 stories, 39x22 feet 2 inches. Contract awarded D. Y. Pappan, Southeast Corner Thirteenth and Reed streets, Philadelphia.

Garage and Show Room (alt.), 4415-17 Chestnut street, Philadelphia, \$5,000. Architect, private plans. Owners, Capital Garage, 4415 Chestnut street, Philadelphia. Contract awarded Manor Construction Co., 6307 Girard avenue, Philadelphia.

Reinforcing Third Floor, 212 Lombard street, Philadelphia. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Abbott's Dairies, Inc., on premises. Contract awarded Jacob Myers Sons Co., 5100 Lancaster avenue, Philadelphia.

Shop and Manufacturing Building, West side "C" street, South of Westmoreland avenue, Philadelphia, \$15,000. Architect, private plans. Owners, Philadelphia Storage Battery Co., "C" and Ontario streets. Steel and concrete, 1 story, 100x100 feet, cement floor, slag roof. Contract awarded Stewart Brothers, 2526 North Orkney street, Philadelphia.

Shop, 1617 West Thompson street, Philadelphia, \$3,000. Architect, private plans. Owner, E. M. Bigger, 134 South Fourth street, Philadelphia. Brick, 2 stories, 16x20 feet, yellow pine floors, slag roof. Contract awarded P. A. Sorenson, 1133 Callowhill street, Philadelphia.

Manufacturing Building (add.), Northeast Corner Richmond and Kennedy streets, Philadelphia, \$40,000. Architect, private plans. Owners, Charles Lennig & Co., Bridesburg, Pa. Brick, 2 stories, 55x45 feet 2 inches, electric work, cement floor, slag roof. Contract awarded A. Raymond Raff, 1635 Thompson street, Philadelphia.

Residence and Store (alt.), 5127 Germantown avenue, Philadelphia, \$9,000. Architect, private plans. Owner, Max Weiss, 5129 Germantown avenue, Philadelphia. General interior alterations. Contract awarded John Roman, 414 East Brighthurst street, Philadelphia.

Elevator Hatch, 34 and 36 Kenilworth street, Philadelphia, \$3,000. Architect, private plans. Owners, Loos & Dilworth, 722-24 Swanson street, Philadelphia. Contract

awarded Clayton Lofland, 231 North Water street, Philadelphia.

Residence (Garage), Southeast Corner Rockwell and Lansing streets, Philadelphia. Architect, private plans. Owner, John Hubney, Ardsley, Pa. Frame, 1½ stories, 24x30 feet, oak and yellow pine floors, shingle roof, garage, 1 story, 12x16 feet, frame. Contract awarded Earle E. Vance, Ardsley, Pa.

Exchange Tower, Penrose Ferry road, East of Schuylkill River, steel and frame, 12x56 feet 3 inches, \$3,000. Condenser Box, steel, frame, 42x101 feet, \$5,000. Exchange Tower, steel, frame, 32x69 feet, \$5,000. Pump Houses (3), steel and frame, various sizes, \$21,800. Owners, Gulf Refining Co., on premises. Contract awarded E. B. Badger Co., Boston, Mass.

Concrete Arch Bridge, Sixty-fifth and Cobb's Creek Parkway, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, City Hall, Philadelphia. Contract awarded Kaufman Construction Co., 26 South Fifteenth street, Philadelphia, who are taking sub-bids on rough stone facing.

Pennsylvania Construction News

Residence and Garage, Souderton, Pa. Architect, Charles Talley, Telford, Pa. Owner, J. H. Wisler, Souderton, Pa. Brick, stone, 2½ stories, 24x30 feet, 20x22 feet, variegated slate roof, hardwood floors, cement work, hot water heat, electric light, tile work. Owner taking sub-bids.

Residence and Garage, Souderton, Pa. Architect, C. M. Talley, Telford, Pa. Owner, H. S. Hallman, Souderton, Pa. Brick, stucco, 2½ stories, 45x33 feet, variegated slate roof, hardwood floors, electric refrigerators and range, hot water heat, electric light, metal lath, tile work, steel sash. Plans in progress. Owner will take sub-bids in 2 weeks.

Church Building, Clark Summit, Pa. Architect, Office of Geo. C. Baum, Early & Emmert, 1511 Arch street, Philadelphia. Owners, Trinity Evangelical Church, Clark Summit, Pa. Architects taking bids due Fe. 18th. (Note extension of time.)

Residence and Garage, Elkins Park, Pa., \$40,000. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, William C. Squibb, care of architect. Cinder block, stucco, 2½ stories, 40x55 feet, shingle roof, hardwood floor, hot water heat. Plans in progress.

Residence (alts. and add.), Brookline, Pa. Architect, Andrew C. Borzner, 717 Walnut

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street, Philadelphia. Owner, Robert Bell, Pennsylvania avenue, Brookline, Pa. Frame, stucco, 2½ stories, hot water heat, shingle roof, hardwood floors, tile work. Plans in progress.

Hotel, Towanda, Pa. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owner, B. A. Ruggles, Towanda, Pa. Fireproof, 4 stories, 60 rooms. Plans in progress.

Residence and Garage, Wayne, Pa. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, C. P. Cox, care of architect. Stone, 2½ stories. Preliminary sketches drawn.

Glatfelter Hall (alts.), Gettysburg, Pa. Owners, Gettysburg College, Henry W. A. Hanson, president, North Washington street, Gettysburg, Pa. Remodeling and modernizing interior of Glatfelter Hall, semi-fireproof construction, concrete and steel stairways, new heating system. Work contemplated.

Residence Development, Aronimink Section, Drexel Hill, Pa., \$11,000 each. Owner, H. F. J. Koedding, 123 Shadeland avenue, Lansdowne, Pa. 211 lots. Work contemplated.

Welding Plant, Scranton, Pa. Owners, Superior Welding Co., James Oaker, general manager, 423 Green Ridge, Scranton, Pa. Work contemplated.

School, Carbondale, Pa. Owners, St. Rose's Roman Catholic Church, Rt. Rev. C. O'Reilly, Scranton, Pa. Brick, stone, fireproof. Work contemplated. Architect not selected.

Airport, near New Cumberland, York County, Pa. Owners, Harrisburg Airport Corporation, Harrisburg, Pa. Site purchased. Work contemplated.

Club House, Dalton, Pa. Owners, Abington Hills Country Club, D. R. Reese, president, 749 North Main avenue, J. B. Casey, treasurer, Casey Hotel, both of Scranton, Pa. Stone, fireproof, 2½ stories. Preliminary plans in progress.

Y. M. C. A. (add.), 633 Washington street, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Reading Y. M. C. A., F. S. Livingood, 633 Washington street, Reading, Pa. Architect selected.

School, Greenlane and Marlborough, Montgomery County, Pa. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Joint School Boards of Montgomery County, A. H. Van Fossen, secretary, Greenlane, Pa. Brick, 1 story, 6 rooms. Preliminary plans in progress.

Church, Shoemakersville, Pa., \$100,000. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, St. Luke's Union Church, care of R. Wolf, Shoemakersville, Pa. Stone, steel, 1 story and basement, 128x40 feet, slate roof, oak floors, vapor heat, electric light, metal lath, steel sash, bond, waterproofing, wrought iron pipe, bronze work. Plans in progress.

Stores (2), Apartments (6), West Chester, Pa. Architect, W. J. Corcoran, West Chester, Pa. Owner, John S. Garrett, Jr., West Chester, Pa. Brick, concrete, block, stucco, 2 stories, 50x72 feet, built-up roof, hardwood floors, structural ornamental steel, plaster board, metal lath, kitchen equipment, metal bulks, kalamein doors, tile work, electric light. Plans about completed. Architect will be ready for general bids in one week.

Residence, Avondale, Chester County, Pa.

Architect, W. J. Corcoran, West Chester, Pa. Owner, Norman Pusey, Avondale, Pa. Concrete block, stucco, 2½ stories, 38x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans about completed. Ready for bids in one week.

Store (alts.), West Gay street, West Chester, Pa. Architect, W. J. Corcoran, West Chester, Pa. Owner, Henry DeHaven, on premises. New metal bulks, central heat, structural steel, interior alterations, composition floors. Plans in progress. Will be ready for bids about March 1st.

Residences (24), Yeadon, Pa. Architect, J. F. Lowrey, Land Title Buildin, Philadelphia. Owner, care of architect. Stone, brick, 2 stories, 18x50 feet, 10x18 feet, slate and tile roof, central heat, electric light, tile work, hardwood floors. Plans about completed. Owner will be ready for bids in ten days.

Church and School, above Hatboro, Bucks County, Pa. Engineer, W. P. Cameron Engineering Co., Packard Building, Philadelphia. Owners, Seventh Day Adventist Church, care of engineer. Brick, frame, 2 stories, 30x50 feet, asbestos shingle roof, concrete and pine floors, septic tanks, plumbing, steam heat, electric light. Engineers taking sub-bids due as soon as possible.

Hosiery Mill, Abington Township, opposite Willow Grove Trolley Station. Engineers, W. P. Cameron Engineering Co., Packard Building, Philadelphia. Owners, Zabel Full-Fashioned Hosiery Mill, care of engineer. Brick, cast stone, steel, 1 or 2 stories, 58x150 feet, gypsum slag roof, cement floors, septic tanks, plumbing, steam heat, oil burners, electric light, rolled steel sash. Engineers ready for sub-bids in a few days.

School, Dallastown, Pa. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Dallastown School Board, Dallastown, Pa. Brick, 2 stories, 128x120 feet, composition roof, maple floors. Owners will be ready for bids about February 15th.

Office, Lititz, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Animal Trap Company of America, Lititz, Pa. Fireproof, 3 stories, 35x80 feet, built-up roof, linoleum floors, roof ventilators, elec-

tric light, tile and marble work, steel sash. Plans in progress. Architect will be ready for bids in three weeks.

Store and Office (alts.), Main street, Norristown, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owners, Schnee & Schnee, 805 Security Building, Bridgeport, Pa. Brick, 4 stories, 35x70 feet, slag roof, vapor heat, electric light, metal ceilings, copper bulks, plate glass. Architect taking bids due February 8th.

Abington Junior High School, Highland, South of Susquehanna avenue, Abington, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Abington

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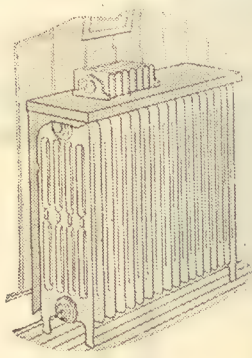
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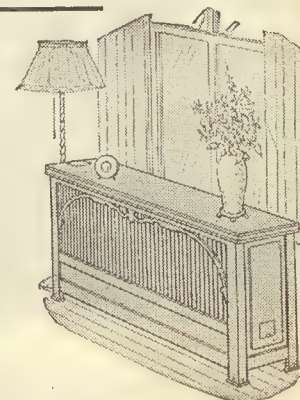
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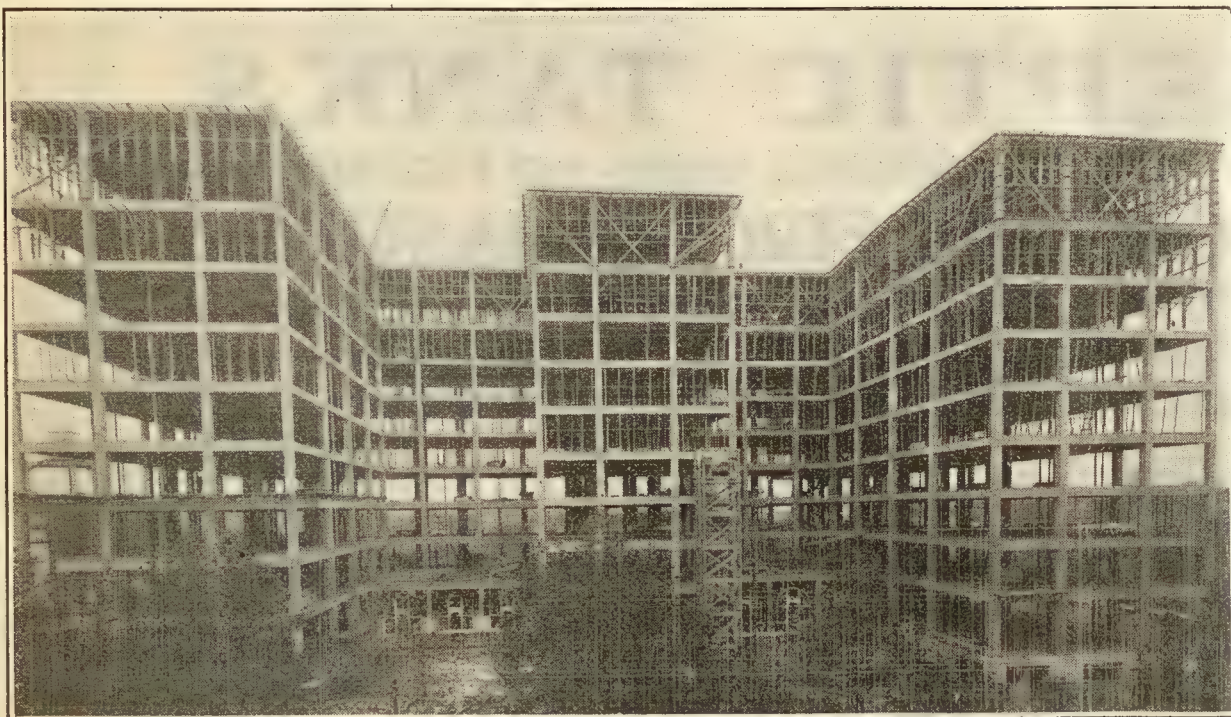
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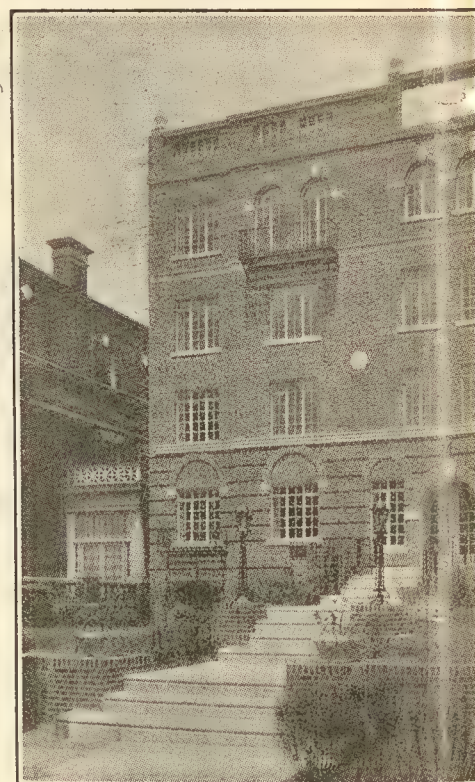
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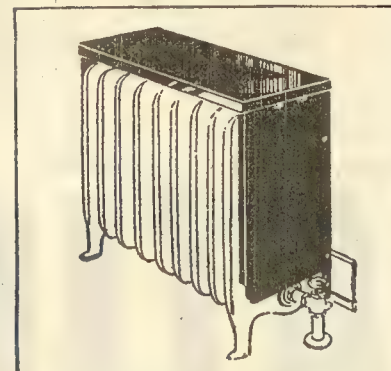
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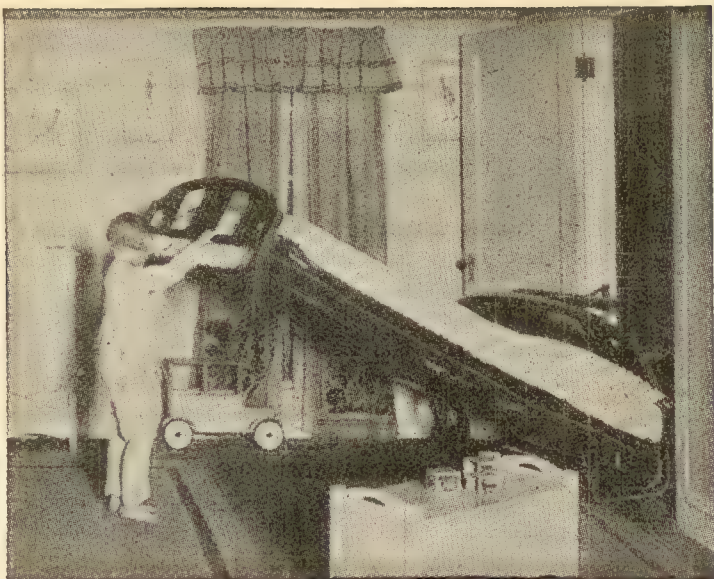
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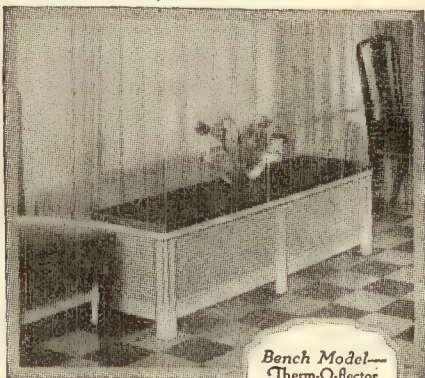
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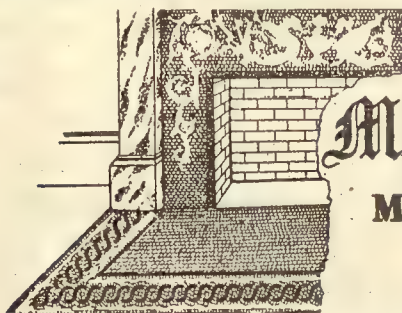
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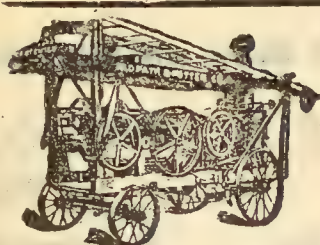
Residence (alts.) to Apartment, Hamburg, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owner, G. B. Miller, Hamburg, Pa. General interior alterations, hardwood floors, tile work. Owner will take sub-bids.

Residences (4), St. David's, Pa. Architect, John L. Cooneys, Drexel Building, Philadelphia. Owner, William C. Meade, Yeadon, Pa. Stone, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, hot water heat, electric light. Owner will build.

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County, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Commissioners of Pennsylvania, N. R. Bueller, Commissioner of Fisheries, State Capitol, Harrisburg, Pa. Cement block, 1 story, 34x40 feet, slate roof, cement floors, steel doors. Owners ready for bids.

Fish Hatchery, Lionesta, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Commissioners of Pennsylvania, N. R. Bueller, Commissioner of Fisheries, State Capitol, Harrisburg, Pa. Cement block, 1 story, 34x40 feet, slate roof, cement floors, steel doors. Owners ready for bids.

Church and Sunday School, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Olivet Presbyterian Church, Rev. S. Bower, 1926 Bellevue road, Harrisburg, Pa. Stone or brick, structural steel, 2½ stories, 102x88 feet, yellow pine and oak floors, waterproofing, cast stone, cinder concrete block, electric light. Plans in progress. Architect will be ready for bids in one week.

Store and Offices, Garrett road, Upper Darby, Pa. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Springfield Real Estate Co., 610 Commercial Trust Building, Philadelphia. Limestone front, brick, 2 stories and basement, 75x137 feet, steel frame, slag roof, Polycrone terra cotta, maple floors, hot water heat, tile work, electric light, maple floors, hot water heat, electric work, metal lath, marble (exterior), steel sash, bronze bulks. Architects taking bids due February 14th at 10 A. M.

Residence and Garage, Wyomissing, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, D. R. Van Olinda, Wyomissing Apartments, Wyomissing, Pa. Stone, 2½ stories, 34x43 feet, 25x30 feet, slate roof, hardwood floors, steel sash, tile, marble, hot water heat, electric light. Architect taking bids.

Orangery, Longwood, Pa. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owner, Pierre S. DuPont, care of architect. Steel, concrete, 20 feet high, 100x40 feet, greenhouse roof construction, concrete floors, hollow tile, steel sash, ornamental cast iron. Plans in progress.

High School and Gymnasium, Sellersville and Perkasio, Pa. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owners, Joint School Boards of Sellersville and Perkasio, Mahlon Keller, secretary, 8 North Seventh street, Perkasio, Pa. Brick, stone, 2 stories and basement, 150x85 feet, 40x60 feet, composition roof, maple floors, safety treads (heating, plumbing and electric separate). Owners will take bids in ten days. Bond.

Residence, Hamorton, Pa. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owner, Pierre S. DuPont, care of architect. Stone, 2½ stories, 30x48 feet, asbestos shingle roof, hardwood floors, vapor heat, electric light. Owner will build.

Residence and Garage, Villa Nova, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, John E. Kearney, Wynnewood, Pa. Stone, 2½ stories, 80x25

feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Store Building, 632 Centie avenue, Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, E. S. Youse Co., Inc., 46 North Fifth street, Reading, Pa. Brick, 2 stories and basement, 200x32 feet, built-up roof, maple floors, hollow tile, copper work, plate glass, skylights, tile work, vapor vacuum heat, electric light. Owners taking bids due February 11th at noon.

Deep Well Pumping Equipment, Norristown State Hospital, Norristown, Pa. Consulting engineer, W. W. Hibbert, 415 Penfield Building, Philadelphia. Owners, Norristown State Hospital, K. L. Campman, business manager, on premises. Owners taking bids due February 12th, 2 P. M. Deposit, \$10, refunded.

School Building, Bluebell, Pa. Architect, W. K. Phillips, 213 South Fifth street, Philadelphia. Owners, Whitpain Township School Board, E. H. Phillips, Bluebell, Pa. Low bidders: F. K. Worley Construction Co., Wesley Building, Philadelphia, \$59,499, add \$269, add \$1,089, add \$1,135; McCormick-Lenham Co., Northwest Corner Fortieth and Chestnut streets, Philadelphia, \$59,500, add \$350, add \$990, add \$1,032.50. Warm air heat, American Heating & Ventilating Co., Schaff Building, \$9,446. Steam heat, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, \$10,449. Plumbing and drainage, L. S. Schatz, Collegeville, Pa., \$2,317. Electric, O. W. Lynch, 5743 Ogontz avenue, Philadelphia, \$3,100.

Pennsylvania Contracts Awarded

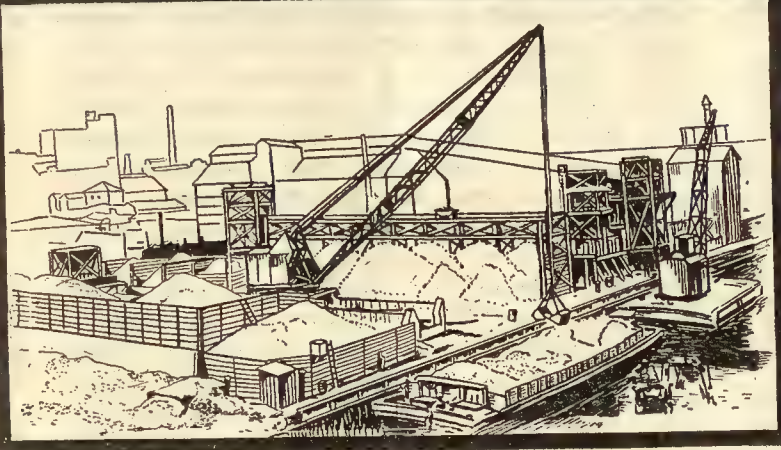
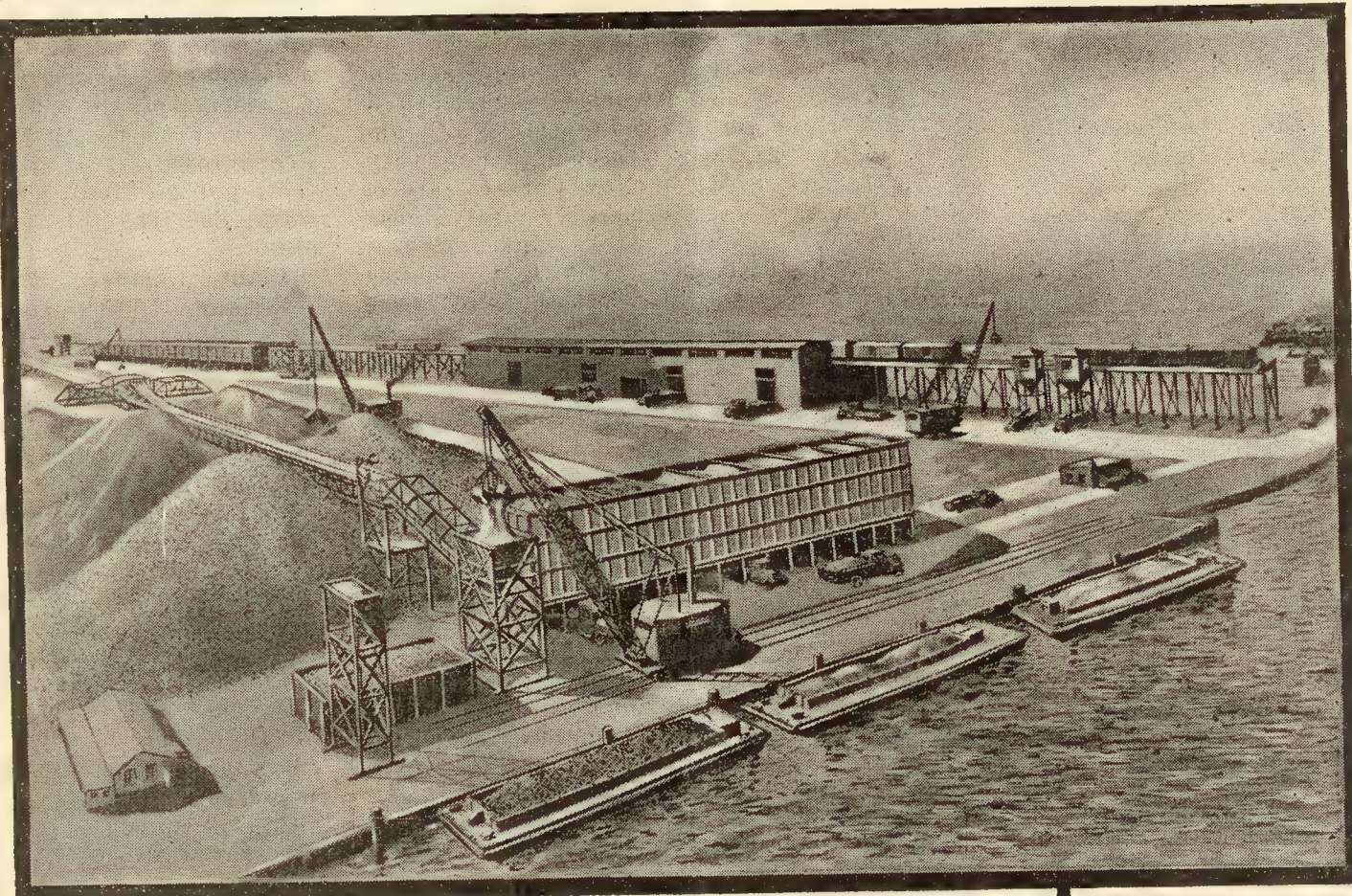
Repeater Office Building, Northwest Corner Rathton road, South Queen street, Spring Garden Township, York, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, American Telegraph & Telephone Co., 195 Broadway, New York. Brick, steel, 66x50 feet, 1 story and basement, bond, H. B. Holtz Co. waterproofing, excavation, reinforced concrete, cement floors, Orthite cement hardener, concrete roof, concrete waterproofing, Milford Pink granite, Indiana limestone, kalamein doors, iron stairs, slag roof (Barrett or equal), Campbell's metal windows, plastering, metal lath, tile and terrazzo and marble work, plumbing, Reading or Byer wrought iron pipe, Anaconda copper pipe, steam heat, Hart & Crouse boilers, radiators (American Radiator Co.), electric work. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Exchange Building, Minersville, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co. of Pennsylvania, Harrisburg, Pa. Brick, stone, 1 story, 33x32 feet, slag roof, cement floors, steam heat. Contract awarded E. R. Bastress Co., Mt. Carmel, Pa.

Store, Hazleton, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, A. Jacobs, Front street, Harrisburg, Pa. Stone, semi-fireproof, 2 stories, 150x34 feet, slag roof, hardwood floors, metal ceilings, electric work, tile, steel sash. Contract awarded W. B. Aierstuck, 34 East Chestnut street, Lancaster, Pa.

Factory (add.), Lititz, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Animal Trap Company of America, Lititz, Pa. Brick, steel, 1 story, 06x120 feet, composition roof, maple floors, electric light, steel sash, fire doors. Contract awarded J. H. Wickersham, Appel Building, Lancaster, Pa.

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Hosiery Mill, Bethayres, Pa. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, name withheld. Brick, steel, 2 stories, 200x50 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Contract awarded William F. Lotz, Frankford and Oxford avenues, Philadelphia.

Gardner's Cottage, Whitemarsh, Pa. Architect, private plans. Owner, Charles S. Cheston, Whitemarsh, Pa. Stone, 2 stories and basement, 31x22 feet, shingle roof, oak and pine floors. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia.

Building, Norristown, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owners, Asbestos Insulating Co., Norristown, Pa. Contract awarded A. T. Allebach, Springmont, Pa.

Conservatory Group (add.), Longwood, Pa. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owner, Pierre S. DuPont, care of architect. Steel, concrete, stucco, 40 feet high, 110x40 feet, 80x35 feet, greenhouse roof construction, concrete floors, hollow tile, iron stairs, steel sash, heating extension, electric light. Contract awarded William M. Francis, DuPont Building, Wilmington, Del.

Loading Station, Sharon Hill, Pa. Architect, private plans. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, steel, 1 story, 75x70 feet, slag roof, cement floors, steam heat, electric light. Contract awarded Henry P. Schneider, 3713 Old York road, Philadelphia.

New Jersey Construction News

Pier and Stores, Atlantic City, N. J., \$300,000. Owners, Central Pier Co., Frederick C. Robbins, secretary-treasurer, 1410 Boardwalk, Atlantic City, N. J. Fire damage. Too early for details.

Normal School, Pennington road, Trenton, N. J. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State Board of Education, Charles H. Elliott, secretary, State House, Trenton, N. J. Brick, steel, 2 stories. Sketches in progress.

Laundry Building, Broadway, North of Jackson street, Camden, N. J. Architect, F. N. Gaudelli, Audubon, N. J. Owners, Airlight Laundry Co., care of U. Marconi, 626 South Fourth street, Philadelphia. Brick, steel cinder block, cast stone, 1 story, 118x100 feet, metal skylights, wood and rolled steel doors. Plans in progress. Architect will take general bids in about 3 weeks.

Residence and Garage, Southeast Corner Third and Chestnut streets, Camden, N. J. Architect, F. N. Gaudelli, Audubon, N. J. Owner, name withheld. Brick, 2 stories, 30x66 feet, 1 story, 10x30 feet, slag roof, hardwood and cement floors, electric light, metal ceilings, waterproofing, concrete foundations. Plans about completed. Architect ready for general bids in one week.

Residence, Trenton, N. J., \$20,000. Architect, Walter Hankin, 224 East Hanover street, Trenton, N. J. Owners, Robinson & O'Donnell, Trenton, N. J. Brick, 2½ stories, 51x60 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owners will build.

New Jersey State Power Plant, State Office, Trenton, N. J. Associate architects, J. O. Hunt, Hunt Building, Trenton, N. J., and H. A. Kelly, 921 Bergen avenue, Jersey City, N. J. Owners, State of New Jersey, care of State House Commissioners, State House, Trenton, N. J. Stone, steel, reinforced concrete, granite, 2 stories, 55x100 feet, concrete roof and floors, roof ventilators, bond, grading, metal sash, tile, metal lath (boiler house equipment, electric, plumbing separate). Owners will receive bids February 20th.

Buildings, Northeast Corner Woodbury and Glassboro roads and Bark Bridge road, Wenonah, N. J. Architect, Irvin T. Catherine, Franklin Trust Building, Philadelphia. Owners, Wenonah Military Academy, Wenonah, N. J. Brick, steel, granite, administration building, 2 stories and basement, 240x60 feet, wing 93x50 feet; dormitory building, "B" 221x97 feet, wing 96x40 feet, 2 stories, basement; gymnasium building, "C" 2 stories and basement, 192x113 feet, bid bond, excavation, reinforced concrete work, dampproofing (Plyrite, Toch Brothers, Concrete Waterproof Paint Co., Hydroseal), cement floor, cement floor hardener (Anti-Hydro, Sonneborn, Master Builders, Builders' Specialty, Toch Brothers), waterproofing (Anti-Hydro or equal), concrete blocks, gypsum tile partitions (Structural Gypsum Corporation), cast stone (Economy, Benedict Stone, Onandaga, Formigli), iron work, bronze work, safety treads (American Abrasive Metal Co.), iron stairs, screens, hollow metal doors and trim (Dahlstrom or equal), maple and pine floors, linoleum, Rubberstone tile floors (Rubberstone Corp.), bond, metal weather strip, caulking (Arco or Pecora), composition roof (Barrett's, Carey or Johns Mansville), membrane waterproofing, variegated slate roof, skylights (Lupton's, Thorn's), skylights, ventilators (Star-Royal or Iona), metal lath, plaster bond (Plyrite or Vortex), California Stucco Interior finish (California Stucco Products Co.), tile work, marble work, plumbing, septic tank, steam heating, boiler (Babcock & Wilcox Co.),

electric refrigerator, electric work. Architect taking bids due February 8th at noon.

High School, South Clinton and Park avenue, Trenton, N. J. Architect, W. A. Kleemann, First National Bank Building, Trenton, N. J. Owners, Hamilton Township School Board, W. A. Robinson, secretary, Greenwood School, Trenton, N. J. Brick, steel, 2 stories, 282x195 feet, slag and gypsum roof, maple, concrete and linoleum floors, metal window guards, cast stone, cut stone, plaster, bronze, iron stairs, bond, septic tank, metal toilet partitions, reinforced concrete vault, tile, marble, metal lath (heating, plumbing, electric, cafeteria separate). Owners taking bids due February 11th.

Residence, Pennsgrove, N. J. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, Fred Gentieu, 70 West Main street, Pennsgrove, N. J. Brick, 2½ stories, 40x40 feet, shingle roof, oak and tile floors, tile work, electric light. Architect about ready for bids.

Plant, Camden, N. J. Engineers, R. A. Wickland & Co., Inc., 205 West Wacker Drive, Chicago, Ill. Owners, Rundle Manufacturing Co., care of Mr. A. C. Held, Twenty-eighth and Cleveland streets, Milwaukee, Wis. Brick, steel, concrete, slag roof, cement floors, enameling building, 1 story, 180x100 feet, cleaning building, 1 story and basement, 102x174 feet, mill and locker building, 3 stories and basement, 62x71 feet. Engineers taking bids due February 15th.

Residences (4), 1304-06-08-10 Dayton street, Camden, N. J., \$3,500 each. Architect, private plans. Owners, John Thiel, Inc., Maple Shade, N. J. Brick, block, 2 stories, 15x36 feet, slag roof, hot air heat, electric light. Permit issued.

Sewage Treatment Plant, Earlton District, Delaware Township, N. J. Engineers, Remington & Vosbury, Camden, N. J. Owners, Delaware Township Commissioners, Mrs. Wer-muth, secretary, Earlton, N. J. Brick, 1 story. Low bidder: Vincenzo Di Francesco, Llanerch, Delaware County, Pa.

New Jersey Contracts Awarded

Administration Building (add. and alts.), Vineland, N. J. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, Department of Institutions and Agencies, State House, Trenton, N. J. Brick, limestone, steel, 3 and 1 stories and basement, 164x56 feet, garage, 32x26 feet, demolition, wood deck roof, dumb waiter, caulking, gray granite, metal lath, plastering, marble, bluestone, tile, terrazzo, iron,

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iron stairs, slag and slate roof, metal weather strip. Contract awarded H. John Homan, Eighteenth and Cherry streets, Philadelphia, \$109,728.

Office (add.), Kentucky and Pacific avenues, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City Electric Co., C. H. Howell, manager, Kentucky and Baltic avenues, Atlantic City, N. J. Brick, steel, 5 stories, 35x100 feet, concrete roof and floors, hollow tile, waterproofing, electric work, tile, marble, steel sash. Contract awarded S. H. Headley, Guarantee Trust Building, Atlantic City, N. J.

Factory, Blackwood, N. J. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owners, Blackwood Hosiery Mill Co., Blackwood, N. J. Brick, steel, 1 story, 50x150 feet, slag roof, cement floors, steam heat, oil burners, electric light, rolled steel sash. Contract awarded W. F. Lotz, Frankford and Oxford street, Philadelphia.

Residence (alts. and add.) to Office, 225 Hanover street, Trenton, N. J. Architect and owner, Walter Hankin, 224 East Hanover street, Trenton, N. J. Brick, stone, 3 stories, 23x16 feet add., slate roof, hardwood floors, heating extension, electric light, casement windows. Contract awarded Robison-O'Donnell, Trenton, N. J.

Miscellaneous Construction News

State Armory for Cavalry, Utica, N. Y. Architects, Division of Architecture, W. E. Haugaard, Commissioner, State of New York, Albany, N. Y. Owners, State of New York, Department of Public Works, Adjutant General's Office, Division of Military and Naval Affairs, Albany, N. Y. Brick, steel, composition roof, slate roof, tile, marble and terrazzo work, rolled steel skylights, cement floors, 2 stories and basement, 180x58 feet, wing 180x206 feet, wing 58x101 feet. Owners taking bids due February 7th, 3 P. M. Certified check, 5 per cent. (Plumbing, heating, electric separate bids.)

Remodeling Buildings, St. Julien's Creek, Va. Architect, James A. Wetmore, Treasury Building, Washington, D. C. Owners, United States Government, Navy Department, Washington, D. C. Slag roof, cement floors. Architect taking bids due February 20th, 11 A. M.

Residence, Wawasett Park, Wilmington, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owners, C. A. Sutherland, care of Warden Grey, DuPont Building, Wilmington, Del. Brick, 2½ stories, 40x40 feet, slate roof, hardwood floors, electric light, hot water heat, tile work. Plans in progress.

Residence (add.), Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, William Corey, 2303 Willard street, Wilmington, Del. Hollow tile, 2½ stories, 25x50 feet, asphalt roof, oak floors, hot water heat, electric light, tile work. Plans in progress.

Garage, location withheld. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, name withheld. Fireproof, 40x80 feet. Plans in progress.

Residence, Wawasett Park, Wilmington, Del., \$35,000. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, name withheld. Brick, 2½ stories, irregular size, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Club (add.), Wilmington, Del., \$25,000. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, DuPont Country Club,

H. Crooks, Wilmington, Del. Stone, 2½ stories, slate roof, oak floors, heating extension, tile and marble, electric light, waterproofing. Plans in progress. Architect will be ready for bids about February 15th.

Armory (alts. and add.) to Lodge Building, Twelfth and Orange streets, Wilmington, Del. Architect, Wallace E. Hance, Equitable Building, Wilmington, Del. Owners, Grand United Order of Odd Fellows, care of architect. Brick, 1 story, 80x80 feet, slag roof, maple floors, electric work, tile work. Architect taking bids due February 11th.

Theatre, site not yet selected. Architect, W. L. Charr, Victory Building, Philadelphia. Owners, Dyseart Theatre, care of Frank Massey, 704 South Washington street, Philadelphia. Work contemplated.

Miscellaneous Contracts Awarded

Infirmity and Laundry Building, Chillicothe, Ohio. Architects, Construction Division, United States Veterans' Bureau, Arlington Building, Washington, D. C. Owners, United States Government, United States Veterans' Bureau, Arlington Building, Washington, D. C. Brick, cast stone, steel, laundry building, 1 story, 122x44 feet, infirmity building, 2 wings, 152x32 feet, 2 stories, wing 41x38 feet, 156x37 feet, reinforced concrete, bond, cement floors, floor hardener (Lapdolith, Matie Builders or equal), cast stone, Indiana limestone, marble work, rubber tile floors, linoleum floors, tile work, rubber tile floors, integral waterproofing, dampproofing (R. I. W. or equal), membrane waterproofing, iron and steel, iron window guards, steel stairs, kalamein floors, metal partitions, rolled steel sash, elevator doors, slate roofing, tin roofing, roof ventilators, metal lath, plastering, sound deadening, screen, steam heat, electric light. Contract awarded A. C. Samford, Montgomery, Ala., \$295,594.

Buildings, Walter Reed General Hospital, Washington, D. C. Architects, Construction Service, Office of Quartermaster General, Washington, D. C. Owners, United States Government, Washington, D. C. Tuberculosis ward, 88x34 feet, 2 wings 72x38 feet, brick, stone, 2 stories and basement, 161x42 feet, laboratory building, 2 stories and basement, 127x47 feet, observation ward, 2 stories and basement, 100x40 feet, ward building No. 3, 2 stories and basement, 190x56 feet. Contract awarded Virginia Engineering Co., Newport News, Va., \$156,765.

Store Building, Washington, D. C. Architects, Nommins, Car & Wright, Chicago, Ill. Owners, Sears-Roebuck Co., Chicago, Ill. Brick, limestone, concrete, 3 stories and basement, 175x126 feet, concrete and slag roof, concrete floors, metal lath, tile work, rolled steel sash, fire and kalamein doors, ornamental iron work, architectural terra cotta (plumbing, heating, electric, elevators reserved). Preliminary plans completed. Contract awarded Irwin & Leighton, 1505 Race street, Philadelphia.

Warehouse and Garage, Twenty-second and Market streets, Wilmington, Del. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Diamond State Telephone Company, care of A. S. Hines, Bell Telephone Company, 1345 Arch street, Philadelphia. Brick, carpentry, mill work, demolition, plumbing, marble and tile work, bond, excavation, reinforced concrete, structural steel, slag roof, steam heat, electric work, brick work, bluestone, limestone, 1 story, 106x91 feet. Contract awarded J. A. Bader, Lackey Building, Wilmington, Del.

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WALTER H. THOMAS, President of the Philadelphia Chapter of the American Institute of Architects, takes a suggestion from a recent statement on "America of Today," by Andre Maurois "Remember that in all ages the great artistic civilizations have been begun by the architects. Have confidence, therefore, in the future of this one." Mr. Thomas, elaborating on the statement of Andre Maurois, presents in the January Chapter Letter a timely foreword. Mr. Thomas continues:

Without qualification, we stand on the threshold of this new year, facing the greatest opportunities for Municipal Service that have ever come to the Architectural Profession in our City.

A Philadelphia with a far broader and deeper vision is in the making. No longer will old moods and methods suffice. Vast projects under way and under contemplation demand upheavals all along the line. Architecture here must make its impress as never before.

Much has indeed already been accomplished, but isolated and self-focused betterments—regardless of their beauty or use—often hinder rather than help or else attract to themselves an undue importance and eclipse the greater vision of the comprehensive city.

We, here in America, often suffer from the urge of the Here and Now. Our impatience demands that what we conceive be completed at the earliest possible moment. We lack the patience of a Baron Haussman who—realizing that Paris, like Rome, could not be built in a day—was content in his lifetime to see established the vital parts of his comprehensive plan, wisely leaving to the future the time and cost required to unite these parts into an interwoven whole.

Let us, therefore, enthusiastically take up the Challenge of our Mayor to his fellow Citizens, and make Architecture the leader and not the follower in planning a Philadelphia of and for the Future.

In so doing, however, may we realize that although we have much to absorb from Europe, we have far more to learn from a proper interpretation of the spirit and trend of modern America. Architectural scale, for example, takes on a new meaning in our cloud-piercing skyline, which no city of Europe can, or will grasp, and the day has passed when we can stupidly transplant this or that foreign building—beautiful as it may be—and arbitrarily expect it to attune to its new world surroundings.

"New times demand new methods and new Men." May we of our Profession be in the front ranks of these new Men—realizing that each and every one of us can and must contribute his definite bit if he will only truly feel the pulse beats

of his City and help to make it like himself—an organic Reality—fully co-ordinated and functioning throughout every part of its Being.

In the Executive Committee Report published in the Chapter Letter are many interesting developments. Under the caption "Illegal Practice" the following warning is sounded:

Serious consideration was given to the situation regarding prosecution of those accused of illegal practice in this State. Inasmuch as it was found that the State Committee for Registration of Architects could not properly prosecute such cases, the Executive Committee recommended that all members of the Philadelphia Chapter be asked to voluntarily contribute to such a fund. This was likewise done in each of the other Pennsylvania Chapters. Pledges to contribute to this fund are now being received by the Treasurer.

The Philadelphia Chapter A. I. A. is represented on a Committee which is in consultation with Governor Fisher of Pennsylvania to determine an equitable plan for the selection of architects for the design of new State Buildings in accordance with the new building programme about to be undertaken by the Commonwealth.

During the year a Committee has been intensively working upon a proposed building which shall be the headquarters of the Architectural Profession and Building Industry in Philadelphia. Encouraging replies to a questionnaire indicate that before long a definite announcement may be made of the consummation of the project.

The Municipal Improvement Committee under the Chairmanship of Ralph B. Beucker devoted its energies towards furthering the project of obtaining for Philadelphia a City Planning Commission.

The Committee on Public Information under the able leadership of D. Knickerbacker Boyd, Chairman of this Committee, reported continued alertness on the part of its members. This committee has kept the newspapers and trade papers informed of architectural aims and activities. Most important has been the work of this committee in securing publicity for architects by having architects' names used in connection with buildings either illustrated or described.

THE GLAD NEW YEAR

The New Year will be glad, not sad from the standpoint of building construction. Those that live by the plough may be poor, but those that live by the hammer may rejoice with exceeding great joy. For signs are such that even the pessimists cannot interpret them dolefully.

The past year has been one of extraordinary volume in building construction, several peaks, hitherto inaccessible, were attained. The figures available when we go to press indicate an increase of 6% over last year.

Will there be a slump in 1929? No. Why should there be? With business in general booming, it is reasonable to suppose that the building business will boom also.

Of course there are developers who will tell you that things are slack for "some reason or other." And so they may be in isolated portions of the country but by and large the residential building trend is healthy and progressive.

Northern New Jersey, a productive section for developers, is exhibiting marvelous increases in building volume, as high as 50% during one month. Other sections, too, are feeling the benefits of the home-seeking public's desire to get into homes. "Small Houses Feature Late Realty Sales" runs a newspaper headline. Here is a hint of what may begin to happen in 1929. Low cost housing for the so-called "masses" offers a tremendous field for operation. A few developers are pioneering in this field but it needs more men who can provide cheap homes that are also good.

In 1929 we may expect low-priced dwellings and housing, designed and built for the ordinary wage earner, to take a new impetus which will help to accelerate the building volume of the year. Certainly no cause for pessimism exists as we commence the year with new vigor.

—Building Developer.

A most cordial invitation is extended to you by the officers, directors and members of the Association of Highway Officials of the North Atlantic States to attend our Fifth Annual Convention which is to be held at the Hotel Ambassador, Atlantic City, February 13th, 14th and 15th, 1929.

Our Program Committee under the Chairmanship of Hon. John A. McDonald, Connecticut, is bending every effort to provide a program of more than usual interest, dealing with timely highway topics and the experiences and problems which confront us in our great highway programs through the North Atlantic Section.

A. LEE GROVER,
Secretary and Treasurer,
Secretary State Highway Com. of N. J.

An increase in volume of construction is anticipated by building supply dealers during 1929 over last year, it is indicated in a survey made by the Universal Portland Cement Company, Chicago, among dealers in the company's trade territory. Nearly 1200 dealers participated in the survey.

The company makes an annual survey of dealers' opinions as to the outlook for the coming year, according to F. L. Stone, general sales manager. The dealer being in close touch with local conditions is in a good position to point the trend in the industry, Mr. Stone says, while a summary of dealers' opinions provides an index of general conditions.

Increased farm building is forecast uniformly in the agricultural states, reflecting an optimistic attitude toward the farm situation generally. This is indicated especially in the replies of dealers located in the middlewest and northwest states.

Residential construction will reach a total greater than that of 1928, the dealers believe, especially in the middlewest states. Sentiment of dealers in east central and northwest states also, points to increases in residence building in these sections.

Highway paving is expected to show an increase over 1928, while commercial building will be about equal to last year's volume, which is the case in city street and alley improvements also. While opinions indicate that the total volume in public utility construction, public building and sewer and waterworks improvements will be the same as or slightly below the level of 1928, a number of states in each classification will show slight increases or maintain the 1928 pace, according to dealers.

Taken by states, the dealers' opinions indicate prospects for a fair increase in total construction in the middlewest states of Illinois, Indiana, Michigan, Wisconsin, and Iowa, smaller increases in Pennsylvania, western New York and Ohio, while in the northwest, Minnesota dealers expect an increase and the Dakota Dealers anticipate a total volume about equal to 1928.

DOMESTIC AND FOREIGN TRADE OUTLOOK

By DR. JULIUS KLEIN, *Director, Bureau of Foreign and Domestic Commerce, Department of Commerce*

(Continued from last week)

Imports of the United States were valued at about \$4,100,000,000 in 1928, or 2 per cent. less than in the preceding year. There was a further moderate decrease in import prices during the year, so that the quantity of goods imported was actually larger than in 1927. The average price of rubber was about one-fourth lower than a year earlier, and there were also marked declines in the average unit value of raw silk, sugar, and many other commodities which we import in large quantities.

Of the five great economic classes of imports only crude foodstuffs and finished manufactures showed increases in 1928. The rise in value of crude foodstuffs was primarily a result of an increase in both the quantity and average price of our imports of coffee, while about one-half of the advance in imports of finished manufactures was due to increased purchases of burlaps.

Crude materials, the most important class of imports, decreased in value about 9 per cent., as a result of lower prices of rubber and silk and smaller purchases of rubber, tobacco, and furs. Imports of hides and skins on the other hand, increased in value by more than one-third, as there were larger purchases at much higher average prices.

Decreases in both the quantity and value of sugar imports accounted for the decline of more than one-tenth in imports of manufactured foodstuffs. There was very little change in the value of semi-manufactures imported, as large increases in imports of fertilizers and leather about

balanced declines in the value of tin, lumber, and aluminum purchased in foreign countries.

The only important changes in the geographic distribution of the import trade in 1928 were a decrease in imports from Asia, ascribable chiefly to the lower average prices of rubber, silk, and tin, and an increase in imports from South America which resulted from larger purchases of coffee, nitrates, and petroleum.

In summarizing conditions at the end of 1928, we may state that domestic production and trade are in record volume and that our foreign commerce continues to show steady growth as a result of an increasing foreign demand for American manufactures. The maintenance of our imports at about the same level as in the two preceding years indicates the large purchasing power and general prosperity of the United States.

"CONFERENCE APPROVES SIMPLIFIED PROGRAM FOR METAL TOILET AND SHOWER PARTITIONS"

A general conference of manufacturers, architects and other users of metal toilet and shower partitions, held January 16th, 1929, at the Department of Commerce, gave informal approval to a proposed simplified practice recommendation for metal toilet and shower partitions.

It was the opinion of the conference that the proposed simplification represented the best thought and practice in the industry, and, after acceptance by the industry, should prove beneficial to architects, contractors and engineers, as well as to the manufacturers themselves. The co-operative services of the Division of Simplified Practice of the Bureau of Standards, Department of Commerce, were requested, by the Metal Compart-

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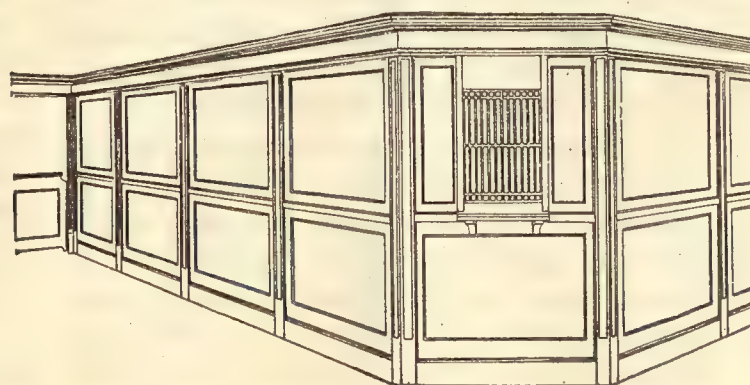
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ment Manufacturers' Association, for the presentation to the interested elements of the industry, of the proposed program.

The conference voted that the recommendation, subject to written acceptance by the industry, should become effective on July 1, 1929. The conference also voted to have a standing committee appointed, to consist of three representatives from the manufacturers and three from the user groups.

Science and the glass maker have made it possible for the person who has been advised to "get out in the sunshine" to bring the sunshine and its beneficial rays indoors, Dr. Donald C. Stockbarger of the Department of Physics of Massachusetts Institute of Technology, told members of the National Housing Association Conference in Philadelphia recently.

Speaking at the session devoted to housing and health, Dr. Stockbarger suggested the possibilities of utilizing the inexhaustible supply of health-giving ultra-violet in the sunlight for the benefit of the home.

The beneficial rays of the sun, he explained, cannot pass through ordinary window glass. Within recent years, however, science has developed certain kinds of glass which permit the health-giving rays of the ultra-violet family to enter our homes to give us much of the benefit of unobstructed sunlight. "Thus we have the assurance," he said, "that the ultra-violet home is at hand and that our expectation of health, particularly during the winter months when we are indoors so much, is greatly increased.

"Now that it is possible to bring natural sunlight into the home by fitting our windows with glass which transmit the valuable ultra-violet, more thought should be given to the matter of utilizing it to the greatest advantage. The home of today, equipped for the benefits of sunlight, should be planned so that those rooms in which our families spend most of their time will have as much sunshine as possible."

The ideal ultra-violet home, Dr. Stockbarger said, might be one in which the conventional order of location of rooms was reversed. Sleeping chambers would be placed on the ground floor, while the living room, study, nursery or playroom would occupy the second floor. By the use of wide skylights and windows fitted with ultra-violet transmitting glass, the rooms in which the average family spends most of its time would thus get the greatest benefit from sunlight.

Speaking of the possibilities of utilizing natural sunlight in the interior of homes, Dr. Stockbarger said: "We all agree that we need sunlight, and most of us are too busy to spend much time out in the open. We cannot very well remove

the glass from our windows in order to let all of the solar ultra-violet in, and therefore we must adopt some new material to replace the old glass. We must have something which is permanent, pleasing in appearance and not too expensive. At present, quartz, which we all know is the most transparent of all available materials, costs too much for general use. Possibly some day it will be within the reach of some of us if some method can be found to produce it on a sufficiently large scale. Fortunately, however, we do not have to wait for that time, for already a number of special glasses have been developed. Several of these transmit some of every color of ultra-violet present in natural sunlight. It follows, and indeed has been proved by numerous experiments, that the same kind of benefits are to be derived from basking in the sunshine behind a good ultra-violet-transmitting window as from doing the same thing out in the open.

"But how long will such a window retain its ultra-violet transmitting properties? We ask this question quite naturally because someone discovered that after several months of use the glasses were not as transparent to some of the ultra-violet colors as they were originally, i. e., they became solarized. Of course the decrease in transparency was not serious, but somebody else made a suggestion that might lead one to believe that if these glasses depreciate slightly in a month the material would in time be no better than ordinary window glass.

"Whoever invented the solarization bugaboo evidently did not know that such processes slow down very rapidly so that after a short time they come to a standstill. I have specimens of ultra-violet-transmitting glass which have been solarized to the limit. I know that the limit has been reached because they were tested from time to time during the solarization process and those tests proved conclusively that depreciation stopped soon after it began.

"Is it necessary to sit directly in front of the window in order to receive solar ultraviolet? The answer is "No." The ultra-violet part of sunshine behaves much the same way as does the visible part, i. e., it is readily diffused and reflected.

"Of course we must admit that diffused ultraviolet such as that to be found in remote corners of a room and that which enters a north window is very much less intense than that in direct, full sunshine. Very naturally this raises the question as to how much ultraviolet we must have. In other words does it pay to use ultra-violet-transmitting glass in north windows or in any window which is not in line with the sun and the persons who are hoping to receive some benefit from the radiation? So far we have very little in-

formation on the amount required, but the question of dosage will be worked out before long. One thing immediately suggests itself as being evident, however, and that is that the amount of ultra-violet required to maintain good health should be much less than that needed to cure. It is the classical idea that an ounce of prevention is worth a pound of cure. I shall be surprised if it is ever definitely proved that the ultraviolet in the north light is of no value."

In planning a home to get the greatest benefit of natural sunlight, Dr. Stockbarger suggested the possibility of making windows wider and higher, and placing them in unconventional locations. "I would suggest," he said, "that skylights be used wherever possible, for a few of these could let in more health rays than all of the rest of the windows combined. I believe also that it may be found that the intensity of diffused ultraviolet in a room is dependent on the kind of floor and wall coverings and on the finish employed on tables and other objects in the room."

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public associations tending to overcome the natural habit of procrastination.—Making advertising pay.

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Belfi Bros., 2120 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CALLING

S. Libman, 629 College Ave., Pittsburgh, Pa.

Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub. Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.

Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.

Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Weil, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

FIRE-PROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING-COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

GUARDS (Machine and Engine)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.

Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

Whartenby, Harry A., 1823 Brandywine St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Weil, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

LUMBER

Ketcham, Howard, 3rd and Girard Ave., Phila.

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

MARBLE

Frank W. Butterworth, 1518 Walnut St., Phila.

MARBLE AND MOSAIC

Belfi Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

MASON BUILDER

D'Lauro, John, 7732 Ardleigh St., Phila.

METAL DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

METAL LATH

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

METERS

Phila. Meter Co., Real Estate Trust Bldg., Phila.

MILLWORK

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

PAVING BRICKS

Ketcham, O. W., 121 N. 18th St., Phila.

PHOTOSTATS

Weber, F., Co., 125 S. 12th St., Phila.

PILES

Foundation & Construction Co., 1320 Race St., Phila.

PLASTER (Colored)

California Stucco Products Co., 1316 Olive St., Phila.

PLASTER BOND

California Stucco Products Co., 1316 Olive St., Phila.

PLASTERERS

Keen Bros., Merchantville, N. J.

PLASTERING (Ornamental)

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

PORCH ENCLOSURES

Malia, Thos. J., 226-32 W. Mentor St., Phila.

RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

Acme Radiator Shield & Inclosure Co.,
2206 Chestnut St., Phila.

J. D. Gerken Co., 1015 Chestnut St., Phila.

REFRIGERATORS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

REINFORCING BARS

Milton Mfg. Co., Milton, Pa.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Penn Steel Service Co., Fuller Bldg., Phila.

ROAD MACHINERY

Service Supply Corp., 20th & Venango Sts., Phila.

ROLL SCREENS

American Metal Weatherstrip Co.,
2115 Diamond St., Phila.

ROOFING

John Nacey Co., 7254 Paschall Ave., Phila.

Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING MATERIALS

MacGarvie, James B., Magnolia, N. J.

John Nacey Co., 7254 Paschall Ave., Phila.

Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING SLATE

Chapman Slate Co., Bethlehem, Pa.

ROOFING TILE

Hood Tile Co., S. E. Cor. Chestnut & 13th Sts., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

SAFETY TREADS (Grating)

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

SAND AND GRAVEL

Charles Warner Co., Union Bank Bldg., Phila., Pa.

The Van Sciver Corporation,
The Parkway at 24th St., Phila.

SAND BLAST CLEANING

Atlas Sand Blast Co., 4238 Market St., Phila.

SCAFFOLDING

Patent Scaffolding Co., 2835 Bridge St., Phila.

SCREENS (Fly)

Malia, Thos. J., 226-32 W. Mentor St., Phila.

SEPTIC TANKS

Philadelphia Septic Tank Co.,
1129 Glenwood Ave., Phila.

SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

SHEET METAL WORK (General)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

SHEETROCK (Wall Board)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

SHELVING (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

SOUNDINGS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

STEEL SASH

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

David Lupton's Sons Co.,
Allegheny Ave. and Tulp St., Phila.

STONE

St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

STUCCO MANUFACTURERS

California Stucco Products Co., 1316 Olive St., Phila.

Mayflower Stucco Co.,
Chestnut Hill, Phila., and Plymouth Meeting, Pa.

SURETY BONDS

Insurance Co. of North America, 1600 Arch St.

Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

TERRA COTTA (Architectural)

Atlantic Terra Cotta Co., Otis Bldg., Phila.

Conkling-Armstrong Terra Cotta Co.,
1600 Arch St., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE



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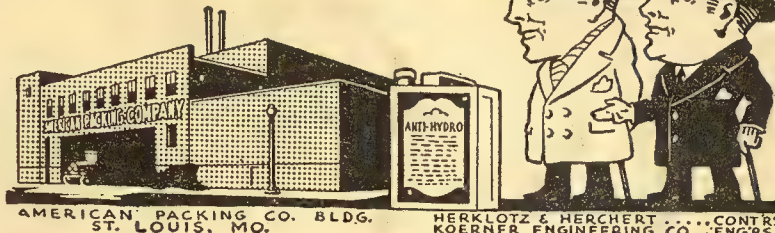
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BUILDING PAPER

Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 7
February 13, 1929

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors
and the Material and Equipment Trades

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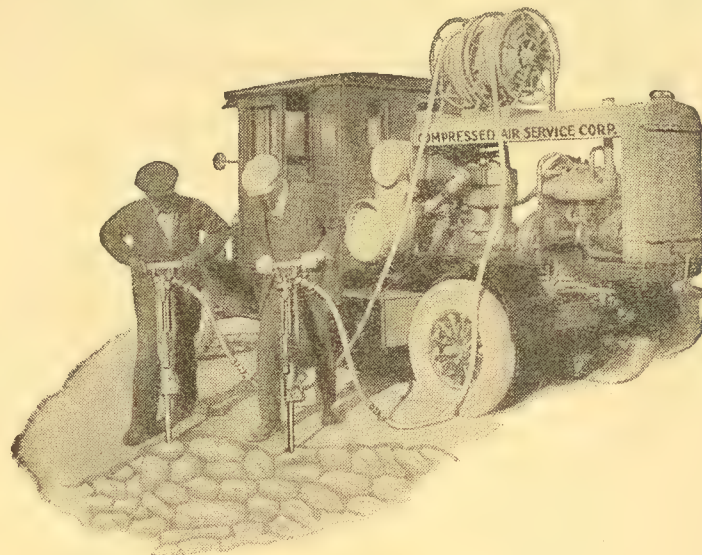
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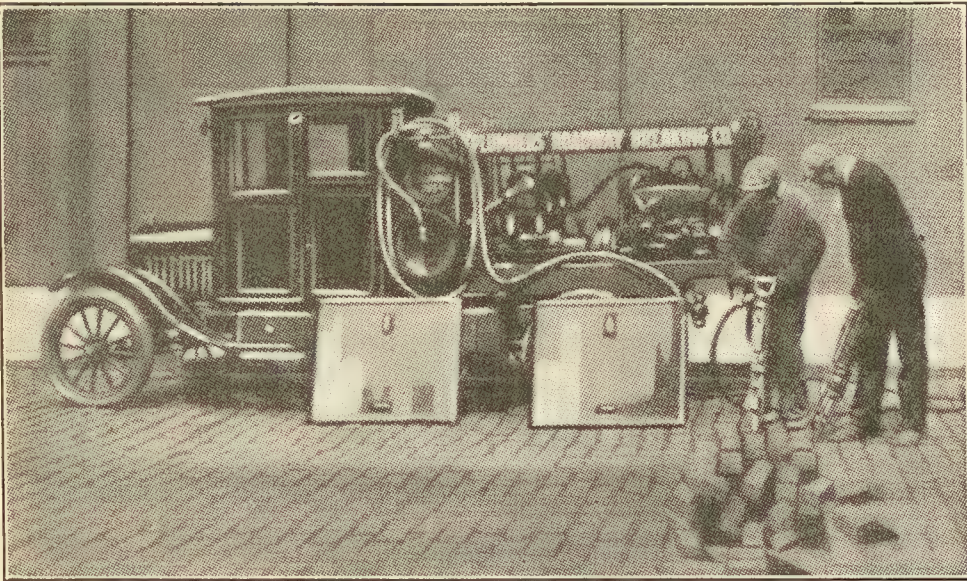
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 7

Engineering and the Building Trades

PHILADELPHIA

February 13, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Service Station, Southwest Corner Fifth and Somerville streets, Philadelphia. Owners, Atlantic Refining Co., C. J. Cutting, 3144 Passyunk avenue. Brick, 1 story, grading, plumbing, Spanish tile roof, paving. Plans in progress.

Apartment House, 3604-06 Spring Garden street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, M. W. Dougherty, 3600 Spring Garden street, Philadelphia. Brick, steel, 4 stories and basement, composition and oak floors, slag roof, steam heat, electric light, tile work, metal lath, iron work. Plans in progress. Owner will build.

Restaurant and Retail Shop, 5541 North Fifth street, Philadelphia. Architect, R. B. Beneker, Thirteenth and Chestnut streets, Philadelphia. Owners, Horn & Hardart Baking Co., 208 South Warnock street, Philadelphia. Limestone, bronze work, brick, 2 stories and basement, 34x115 feet, built-up roof, metal lath, steam heat, electric work. Ready for bids in one week.

Residences (9), Cottman street, between Melrose and Wissinoming avenue, Philadelphia. Architect, Lewis J. Cohen, Real Estate Trust Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x32 feet, slag and tile roof, hardwood floors, hot water heat, electric light, metal lath, wood and steel sash, cement work, garage in basement. Revised plans completed. Architect taking sub-bids.

Convention Hall, Vintage avenue, between University Museum and Commercial Museum, Pa. Architect, B. H. Johnson, Widener Build-

ing, Philadelphia. Owners, City of Philadelphia, care of Hon. Mayor Mackey, City Hall, Philadelphia. Indiana limestone, granite, 226x300 feet, ornamental plastering, roof ventilators, automatic pumps, vacuum cleaner, bronze work, lighting, marble work, heating. Plans in progress. Ready for bids in two months.

Apartment House, Mt. Airy and Ellen streets, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, name withheld. Stone, brick, steel, 4 stories, 136x49 feet, 2 wings 50x55 feet, slag roof, hardwood floors, elevator, Murphy beds, laundry and kitchen equipment, steam heat, oil burners, electric work, tile work, incinerators. Revised plans in progress. Architect taking sub-bids in a few days.

Retail Store, 1626 Chestnut street, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimore street, Philadelphia. Owners, S. F. Whitman & Son, 1316 Chestnut street, Philadelphia. Brick, 1 story, 20x150 feet (soda fountain and kitchen equipment reserved. Architect taking bids due February 20th at noon.

Factory (add.), State road and Rhawn street, Philadelphia. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, J. J. Nesebitt, on premises. Brick, steel, 1 story, 108x142 feet, gypsum and slag roof, cement floors, plumbing, steam heat, electric light, rolled steel sash. Architect taking bids due February 19th.

Church (alts.), 5421 Germantown avenue, Philadelphia. Architect, Horace Wells Sellers,

Stephen Girard Building, Philadelphia. Owners, St. Luke's the Evangelist Church, Rev. W. E. Conklin, 5411 Germantown avenue. Lining interior with stone, mill work. Architect taking bids due February 18th.

Apartment House (alts. and add.), 423 Spruce street, Philadelphia. Architect, A. C. Bieber, 1520 Locust street, Philadelphia. Owner, name withheld. Brick, 3 stories, 19x13 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, kitchen equipment, Murphy beds. Plans in progress. Architect ready for sub-bids.

Residence and Garage, Woodbine and Bryn Mawr avenue, Wynnefield, Philadelphia. Architects, De Armond, Ashmead & Bickley, 20 South Fifteenth street, Philadelphia. Owners, R. P. Dooner, 1822 Chestnut street, Philadelphia. Stone, 2½ stories, 25x50 feet, 25x40 feet, hardwood floors, electric light, tile work. Architects taking sub-bids.

Shop Building, 4233-35 Ludlow street, Philadelphia. Architect, John J. Carroll, 1619 Chestnut street, Philadelphia. Owner, name withheld. Brick, 1 story, hot water heat, slag roof, concrete floors, structural steel, plumbing, electric light, metal sash. Plans on file at Mr. Edward Hudson's office, Taylor Nagle Co., 4238 Market street, who will take general bids.

Benjamin Crispen School, Rhawn and Ditman streets, Philadelphia. Architect, Irwin T. Catherine, Board of Education, Nineteenth and Ludlow streets. Owners, Board of Education, William Rowen, president, Nineteenth and Ludlow streets. Low bidders: McCloskey

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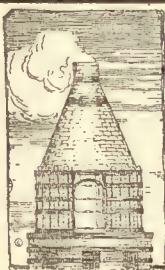
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Plant

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& Co., 1620 Thompson street, \$133,469; P. H. Kelly, 1713 Sansom street, Philadelphia, \$133,744; plumbing, Jacob Brugger, 2124 East Cumberland street, Philadelphia, \$9,250; heating, McClintock & Co., 5608 Race street, Philadelphia, \$9,645; ventilating, A. & W. Wegman, 2813 West Fletcher street, Philadelphia, \$545; electric, Harry W. Hart, 7010 Ditman street, Philadelphia, \$2,650.

Apartment House, South side Spring Garden, West of Thirty-sixth street, Philadelphia, \$60,000. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Matthew W. Dougherty, O and Luzerne streets, Philadelphia. Brick, 4 stories, 46x98 feet 4 inches, hot water heat, electric work, slag roof, oak and yellow pine floors. Permit issued.

Bank Building (alts.), Broad and Fairmount avenue, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, Northwestern National Bank, E. A. Schmidt, on premises. Architect taking bids due February 14th on plumbing and heating.

Alterations to First Floor, Thirty-third and Arch streets, Philadelphia. Architect, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Estate of E. S. Wilford, Otis Building, Philadelphia. Changing first floor from factory to offices. Architect taking bids due February 18th.

Miscellaneous Work, Philadelphia Wagon Shed, Northeast Corner Twenty-fifth and Oakford streets, Philadelphia. Owners, Department of Street Cleaning, Department of Public Works, 101 City Hall Annex, A. Murdoch, opened at 216 City Hall, Philadelphia. Owners taking bids due February 19th at noon. Certified check, 5 per cent., for smoke exhaust system installed in above building. (Wagon shed.)

New Heating System, in residence of Chief and Assistant Chief, Holmesburg, Pa. Owners, Bureau of Charities and Correction, Holmesburg, Pa. Low bidder, Fred Wackenhutt, 241' Foulkrod street, Philadelphia. \$3,525.

Pump House, North side Penrose Ferry, East of Schuylkill River, Philadelphia. Steel and frame, 142x129 feet. \$40,000. Boiler house, steel and frame, 104x46 feet 5 inches. \$22,000. Locker house, brick and steel, 50x34 feet, 30x20 feet, \$12,000. Coke house, steel and brick, 46 feet 1 inches x 28 feet 10 inches. \$12,000. Owners, Gulf Refining Co., on premises. Permit issued.

Mill and Storage Building, East side Farrell lane, North of Woodland avenue. \$4,000. Architect, private plans. Owner, Hamilton J. Farrell. Sixty-third and Woodland avenue, Philadelphia. Brick, 2 stories, 32x86 feet. Permit issued.

Residence and Garage, Southwest Corner Hegerman and Audrey streets, Philadelphia, \$4,300. Architect, private plans. Owner, John Listman, Convent lane, Philadelphia. Brick, 2 stories, 20x30 feet, garage, 1 story, brick, 8x14 feet. Permit issued.

Residences (2), East side Eighty-seventh street, South of Brewster avenue, Philadelphia, \$10,000. Architect, private plans. Owner, Levi L. Pitchford, 3228 South Eighty-seventh street, Philadelphia. Brick, 2 stories, 16x38 feet, hot water heat, electric work, slag roof. Permit issued.

Apartment (add.), 6601 Blackmore street, Philadelphia, \$3,000. Architect, private plans. Owner, Earl K. Davis, 530 Vernon road, Philadelphia. Brick, 1 story, 17x28 feet, 12x18 feet. Permit issued.

Residences and Garages (2), Mt. Pleasant avenue, west of Lincoln Drive. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owner, C. Bonitatibus, 300 West Mt. Pleasant avenue, Philadelphia. Brick, 2 stories, 15x40 feet, 1 story 10x20 feet, slag and tin roof, cement floors, enclosed porches, hot water heat, electric light, tile work. Plans completed. Owner will build and take sub-bids in a few days.

Store (add.), 7101 Rising Sun avenue, Philadelphia. Architects, Watts & Coscia, 1504 Locust street, Philadelphia. Owner, Nicola Vitale, on premises. Brick, 1 story, 17x18 feet, concrete roof, cement floors, electric light, waterproofing. Owner taking bids.

Dept. of Supplies, 312 City Hall, Philadelphia (T. F. Watson, agent). Owner taking bids due Feb. 20th at noon, in room 329 City Hall. Certified check, 5%. Iron and tool steel, inlet, new wire for power and iron outlets. Sand discharge hose, packing.

Printing Building, 5010-11 Lancaster avenue, Philadelphia. Owners, United Lutheran Publishing House, 1228 Spruce street, Philadelphia. Size of lot 98x118½ feet. Work contemplated.

Building, Southwest corner Broad and Spring Garden streets, Philadelphia. Architect, private plans. Owner, A. M. Greenfield, Bankers' Trust Building, Philadelphia. Lessee, W. W. Smith, care of owner. Interior alterations for garage purposes. Work contemplated.

Residences (11), South side Faunce, West of Erdick street, Philadelphia, \$27,500. Architect, private plans. Owners, Lehan & Cylinder, 4758 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16 feet 2 inches by 26 feet, hot water heat, electric work, slag roof. Permit issued.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building (2nd story alts. and add.), 1504 N. Mervine street, Philadelphia. Architect, Julian S. Simsohn, Broad and Girard avenue, Philadelphia. Owners, Davis Coat & Apron Supply Co., on premises. Brick, steel, 2nd story addition 73x14 feet, bond, waterproofing, Armstrong lineoleum floors, magnesite floors (Selby Battersby), steel sash (Lupton), fire doors (Coburn or equal), slat glazed terra cotta coping, Carey built-up roof, plumbing, Hart & Hutchinson metal partitions, roof ventilators (Apex or equal), (heating and electric work reserved). Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia.

Bakery & Residence Alterations, 624 South 60th street, Philadelphia, \$2,000. Architect, private plans. Owner, Louis Freedman, on premises. General interior alterations. Contract awarded Stanley Haberok, 502 North 6th street, Philadelphia.

Apartment House, Sheldon street, between Stenton avenue and Shedaker street, Philadelphia. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, George Winter, care of builders. Brick, cast stone, steel, 3 stories and basement, 94x130 feet, slag roof, hot water heat, oil burner, electric light, tile work, metal lath, slag roof, oak, pine and cement floors, bond, ornamental iron work, incinerators, electric refrigeration. Contract awarded Sheldon Apartment Corporation, 535 Chestnut street, Philadelphia (first floor, who are taking sub-bids).

Building, 2123 North Broad street, Philadelphia, \$23,000. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Trugas Oil Co., Estey Building, Philadelphia. Brick, stucco, 2 stories and basement, 20x160 feet, slag, slate and copper roof, concrete, hardwood and linoleum floors, freight elevators, rolled steel sash, rolling steel doors. Contract awarded S. H. Levin, 1619 Sanson street, Philadelphia.

Alterations and New Escalators, Northeast Corner Ninth and Market streets, Philadelphia, \$70,000. Architect, private plans. Owners, Blauner's, Inc., 833 Market street, Philadelphia. Carpentry and mill work, structural steel, concrete and cement floors, plastering, alterations to plumbing, heating and sprinklers. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Machine Shop, Greenwich Point, South Philadelphia, Pa. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad, W. W. Atterbury, president, Broad Street Station, Philadelphia. Cinder block, steel, 1 story, 20x80 feet, slag roof, cement floors. Contract awarded Sinclair & Griggs, 1518 Walnut street, Philadelphia.

Sacristy (add.), Thirty-second and Clearfield streets, Philadelphia. Architect, Wilfred Edward Anthony, 131 East Forty-seventh street, New York City. Owners, St. James the Less Parish, on premises. Stone, 2 stories and basement, 23x12 feet, slate roof, oak and pine floors. Contract awarded I. S. Grindrod, 10 South Eighteenth street, Philadelphia, who is taking sub-bids.

Bank and Office Building, 1511-13 Walnut street, Philadelphia. Architect, Grant M. Simon, 1500 Walnut street, Philadelphia. Owner, care of Lionel Friedman, agent, Fifteenth and Locust streets, Philadelphia. Lessees, second floor, H. L. Lang Co., 213 South Broad street, Philadelphia; first floor, Hano-Wasserman Co., 1418 Walnut street, Philadelphia. Limestone, brick, steel, 2 stories, 38x129 feet. Contract awarded Golder Construction Co., 1600 Arch street, Philadelphia.

Alterations and Addition, Fourth and Washington avenue, Philadelphia, \$5,000. Architect, private plans. Owners, Southwark Foundry & Machine Co., on premises. Brick, concrete floors, structural steel, yellow pine floors. Contract awarded Curtis Co., 10 South Eighteenth street, Philadelphia.

Warehouse (add.), Roosevelt Boulevard, Philadelphia. Architects, Nemours, Carr & Wright, 333 Michigan avenue, Chicago, Ill. Owners, Sears-Roebuck Co., on premises. Brick and reinforced concrete. Contract awarded Irwin & Leighton, 1505 Race street, who will be ready for sub-bids about February 15th.

Residence and Garage, Mt. Airy, Pa. Architect, Robert Rhodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Henry D. Boenning, 1606 Walnut street, Philadelphia. Stone, 2½ stories and basement, irregular, hot water heat, slate roof, electric light, oak and yellow pine floors, tile work, bond, ornamental iron work. Contract awarded William J. Gruhler Co., 219 High street, Philadelphia, who are taking sub-bids due February 18th.

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Dispensary Building, Thirty-second and Passyunk avenue, Philadelphia. Architect, private plans. Owners, Philadelphia Gas Works, Broad and Arch streets, Philadelphia. Brick, steel, 1 story, 25x50 feet, slag roof, cement floors. Contract awarded F. K. Worley Construction Co., Wesley Building, Philadelphia.

Garage, 1205-15 North Eighth street, Philadelphia, \$16,000. Architect, John Swartley, 5609 Pine street, Philadelphia. Owner, Mrs. Fannie Rudley, 721 Girard avenue, Philadelphia. Brick, 2 stories, 73x80 feet, steam heat, electric work, cement floor, slag roof. Contract awarded John Hutt, 5919 Spruce street, Philadelphia.

Residence and Store, 3246-48 North Front street, Philadelphia, \$6,000. Architect, private plans. Owners, Ryan & Busby, 3240 North Front street, Philadelphia. Brick, 2 stories, 24x49 feet, electric work, yellow pine floors, slag roof. Contract awarded Alfred Bowker, Cheltenham, Pa.

Store, 7229 Rising Sun avenue, Philadelphia, \$5,000. Architect, private plans. Owner, Clara Greenspan, 1617 Sixty-seventh avenue, Philadelphia. Brick, 1 story, 30x75 feet, yellow pine floors, slag roof. Contract awarded Charles M. Greenwood, 253 East Penn street, Philadelphia.

Residence (add. and alt.), 1511 South Broad street, Philadelphia, \$4,500. Architect, private plans. Owner, Dr. Joseph Gagliardi, 1523 South Broad street, Philadelphia. Iron on iron, 1 story, 13x14 feet. Contract awarded Henry C. Dahl, 231 South Eighth street, Philadelphia.

Residence and Store (alt.), 2711 West Girard avenue, Philadelphia, \$3,000. Architect, private plans. Owner, Henry Gysflebare, 2711 West Girard avenue, Philadelphia. General interior alterations. Contract awarded Fleisher Brothers, 1531 North Eighth street, Philadelphia.

Residence and Store (alt.), Southwest Corner Eighth and Catharine streets, Philadelphia, \$7,000. Architect, private plans. Owner, Samuel Guarred, 811 Catharine street, Philadelphia. Contract awarded Vincent C. Vaccaldino, 703 South Tenth street, Philadelphia.

Coal Trestle, East side Twenty-fifth street, South of Morris street, Philadelphia, \$6,000. Architect, private plans. Owner, Adam App, Twenty-fifth and Morris streets, Philadelphia. Concrete and steel. Contract awarded Kaufman Construction Co., 26 South Fifteenth street, Philadelphia.

Residence and Store (alt.), 2818-20 Germantown avenue, Philadelphia, \$3,000. Architect, private plans. Owner, L. B. Gross, 2820 Germantown avenue, Philadelphia. General interior alterations. Contract awarded A. S. Kirpich, 3211 West Oxford street, Philadelphia.

Foundry Fire Repairs, 1612 Vandyke street, Philadelphia, \$10,000. Architect, private plans. Owner, Snyder Bowman, 1612 Vandyke street, Philadelphia. General interior alterations. Contract awarded Paul Brosz, 2515 West Huntingdon street, Philadelphia.

Fire Repairs, 221-23 North Twenty-third street, Philadelphia, \$4,900. Architect, private plans. Owner, Harry F. Saunders, 28 South Eighteenth street, Philadelphia. General interior alterations. Contract awarded F. B. Davis & Son, Inc., 240 North Sixteenth street, Philadelphia.

Residences (4), Mt. Airy, West of Greene street, Philadelphia, \$72,000. Architect, private plans. Owner, Carroll W. Simon, 1001 Chestnut street, Philadelphia. Stone, 3 stories, 25 feet 4 inches x 45 feet 10 inches, hot water heat, electric work, slag roof. Contract awarded Delaware Form Co., 1001 Chestnut street, Philadelphia.

Store and Office Building, East side Oxford avenue, South of Rhawn street, Philadelphia, \$6,800. Architect, private plans. Owners, Grookett Brothers, on premises. Brick, 3 stories, 21 feet x 40 feet 6 inches, oak and yellow pine floors, slag roof. Contract awarded Leonard H. Walters, 533 Stanwood street, Philadelphia.

Residence, South side Herschel, West of Kelvin road, Philadelphia, \$6,400. Architect, private plans. Owner, Andrew Weimar, 8031 Jeanes avenue, Philadelphia. Brick, 2 stories, 31x25 feet, hot water heat, electric work, oak and yellow pine floors, slag roof. Contract awarded Leonard H. Walter, 533 Stanwood street, Philadelphia.

Pennsylvania Construction News

Office and Shop, Bangor, Pa. Architect, C. F. Spangenburg, 504 Broadway, Bethlehem, Pa. Owners, Owens' Monumental Works, Raymond Hoffman, Bangor, Pa. Brick, 1 story. Preliminary plans in progress.

Hospital, Carbondale, Pa. Architect, R. E. Tiffany, Traders' Bank Building, Scranton, Pa. Owners, Carbondale General Hospital, Carbondale, Pa. Brick, steel, 3 or 4 stories. Architect selected.

Residences (12), College avenue and Turnbridge road, Haverford, Pa. Owners, Flanagan & Flanagan, Bryn Mawr, Pa. Stone, various sizes. Plans in progress.

Garage (alts. and add.), Pottsville, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Good Brothers, Pottsville, Pa. Brick, 1 story add., 72x70 feet, built-up roof, cement floors, face brick, structural steel, plate glass, metal sash, cast stone. Plans in progress.

Residence (alts. and add.), near Buckingham, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, T. B. White, Springfield, Pa. Stone, 2½ stories, 18x22 feet addition, garage, 1 story, 22x22 feet, general alterations to present building, 2½ stories, 21x75 feet, hardwood floors, electric light, tile work, metal sash. Ready for bids in two weeks.

Church and School, North Main street, Wilkes-Barre, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, St. John the Evangelist Roman Catholic Church, Rev. D. J. Kane, 115 North Main street, Plains, Pa. Brick, steel, 1 story, 130x65 feet, gypsum roof, concrete and oak floors, hollow tile, safety treads, art glass, tile, marble, steel sash, ornamental iron. Plans in progress. Architect will be ready for bids next week.

Factory (fire repairs), Bristol, Pa. Engineers, George Tomlinson & Son, 1713 Sansom street, Philadelphia. Owners, Superior Zinc Corporation, Bristol, Pa. Brick, 2 stories, 80x30 feet, slag roof, cement floors. Engineers ready for sub-bids about February 15th.

Apartment House, Wycomb and Lidway avenue, Lansdowne, Pa. Architect, Ralph Goldberg, 266 South Fifteenth street, Philadelphia. Owner, John P. Fallon, Plumstead and Maple streets, Lansdowne, Pa. Limestone, steel, 3 stories and basement, 132x116 feet, 65 apartments, slag roof, hardwood floors, electric elevators, Pierce Butlere heating, oil burners, electric light, tile and ter-



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Residence and Office, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Ambrose Heller, 1610 Chew street, Allentown, Pa. Brick, 3 stories, 39x60 feet, slate roof, hardwood floors, vapor heat, electric light, tile, marble, casement windows. Owner taking sub-bids.

Church, Park avenue, Swarthmore, Pa. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, First Church of Christ Scientist, Morgan Parson, chairman, Moylan, Pa. Stone, 1 story. Architects ready for bids due about February 23rd.

Theatre, Stores (6) and Apartment, Erie, Pa. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Jacob & Isaac Silverman, Erie, Pa. Brick, steel, stone, concrete, 3 stories, seating capacity 3,000, electric light, tile and marble work, fire escapes, steel sash. Architects ready for bids.

Grade Schools (2) (add.), Laurel Bend, Croyden, Pa. Architect, Charles H. Jester, 141 South Fifty-second street, Philadelphia. Owners, Bristol Township School Board, E. A. Smith, Newportville, A. Seyfert, Laurel Bend, Pa. Frame, asbestos roof, 2-room add. Ready for bids in a week.

Court House, (two-wing add.), Media, Pa., \$1,500,000. Architect, C. W. Brazier, Chester, Pa. Owners, Delaware County Commissioner, G. T. Wades, Media, Pa. White marble, 3 stories and basement. Plans in progress. Ready for bids in a month.

Residence and Garage (Plan No. 6), Villa Nova, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, John E. Kearney, Wynnewood, Pa. Stone, 2½ stories, 80x25 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Residence and Garage, Wayne, Pa. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, C. P. Cox, care of architect. Stone, 2½ stories. Plans completed. Architect ready for sub-bids.

Residence and Garage, near Willow Grove, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Elkins-Shelbe Co., Jenkintown, Pa. Stone, 2½ stories, 27x86 feet, tile work, hardwood floors, electric light. Owners will build and are taking sub-bids.

Filling Station, Forest and York road, Elkins Park. Architects, Silverman & Levy, 315 S. Smedley street, Philadelphia. Owners, Trugas & Oil Co., Estey Building, Philadel-

phia. Brick, 1 story. Plans in progress. Ready for bids in one week.

Residence and Garage, Laverock, Pa. Architect, J. W. Keyes, Otis Building, Philadelphia. Owner, F. R. Fairchild, 250 West Gorgas lane, Philadelphia. Stone, 2½ stories. Architect will be ready for bids in one week.

School, Retreat, Pa. Architect, R. M. Herr, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Newport Township School Board, Mr. Morgan, secretary, Retreat, Pa. Brick, 1 story, 2 rooms, slag roof, pine floors (heating, plumbing and electric separate). Plans in progress.

School, Shenandoah, Pa. Architect, Austin L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Shenandoah School Board, care of architect. Architect selected.

Residence, Kingston, Pa. Architect, Carl J. Schmitt, 298 North Main street, Wilkes-Barre, Pa. Owner, F. G. Reckies, care of architect. Frame, 2½ stories, 39x28 feet, shingle roof, vapor heat, electric work, tile work. Plans in progress.

Silk Mill, Wilkes-Barre, Pa. Architect, Carl J. Schmitt, 298 North Main street, Wilkes-Barre, Pa. Owner, name withheld. Brick, steel, 2 stories add., 246x58 feet, 34x58 feet, slag roof, maple floors, freight elevators, roof ventilators, heating extension, electric light, steel sash, fire doors. Plans in progress.

Residence, Georgetown, Pa. Architect, Carl J. Schmitt, 298 North Main street, Wilkes-Barre, Pa. Owner, Michael Simpson, care of architect. Frame, 2 stories, 20x40 feet, shingle roof, yellow pine floors, steam heat, electric light. Plans in progress.

Laundry Building, Laurelton, Pa. Architect, George S. Idell, 1512 Chestnut street, Philadelphia. Owners, Laurelton State Village, Laurelton, Pa. General construction, plumbing, heating, electric. Owners taking bids due March 2nd at 10.30 A. M. Plans may be secured from architect upon deposit of \$10, refunded. Certified check or bond, 5 per cent.

Theatre, Stores and Apartments, Erie, Pa. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Warner Brothers, Real Estate Department, 321 West Forty-fourth street, New York. Brick, steel, concrete, 3 stories and basement, seating capacity 3,000, slag roof, cement floors, metal lath, tile and marble work, rolled steel sash. Architects taking bids due February 21st.

Warehouse, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building,

Allentown, Pa. Owners, Lehigh Valley Outdoor Advertising Corporation, J. McLaughlin, 1906 Hanover avenue, Allentown, Pa. Brick, steel, 1 story, 80x120 feet, 30x30 feet, slag roof, concrete floors, steam heat, steel sash and skylights. Architects taking bids due February 15th.

Church, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Evangelical Congregational Church, Rev. G. Wesley Marquardt, Presiding Elder, 443 North Ninth street, Allentown, Pa. Brick, steel, 1 story, 52x65 feet, slate roof, concrete floors, area gratings, electric work, cast stone. Architects taking bids due February 18th.

Central Office Building, North Grand street and West Fourth street, Lewistown, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of America, Nineteenth and Arch streets, Philadelphia. Brick, reinforced concrete, steel, 2 stories and basement, 81x76 feet, bond, cement floors, excavation, hollow tile, granite, limestone, copper-covered doors, caulking, fire doors, iron stairs, slag roof (Barrett or equal), Campbell metal windows or equal, marble, tile and terrazzo work, hardware, plumbing, steam heating, electric work. Architect taking bids due February 18th.

Grade School (add. and alts.), Hollister avenue and Parker street, Scranton, Pa. Architect, E. J. Rutledge, Union Bank Building, Scranton, Pa. Owners, Scranton School Board, F. MacGovern, president, 425 North Washington avenue, Scranton, Pa. Brick, frame, 2 stories and basement, 60x42 feet, built-up roof, maple floors (heating, plumbing, electric separate), safety treads, bond, kalamein doors, iron stairs. Owners taking bids due February 25th.

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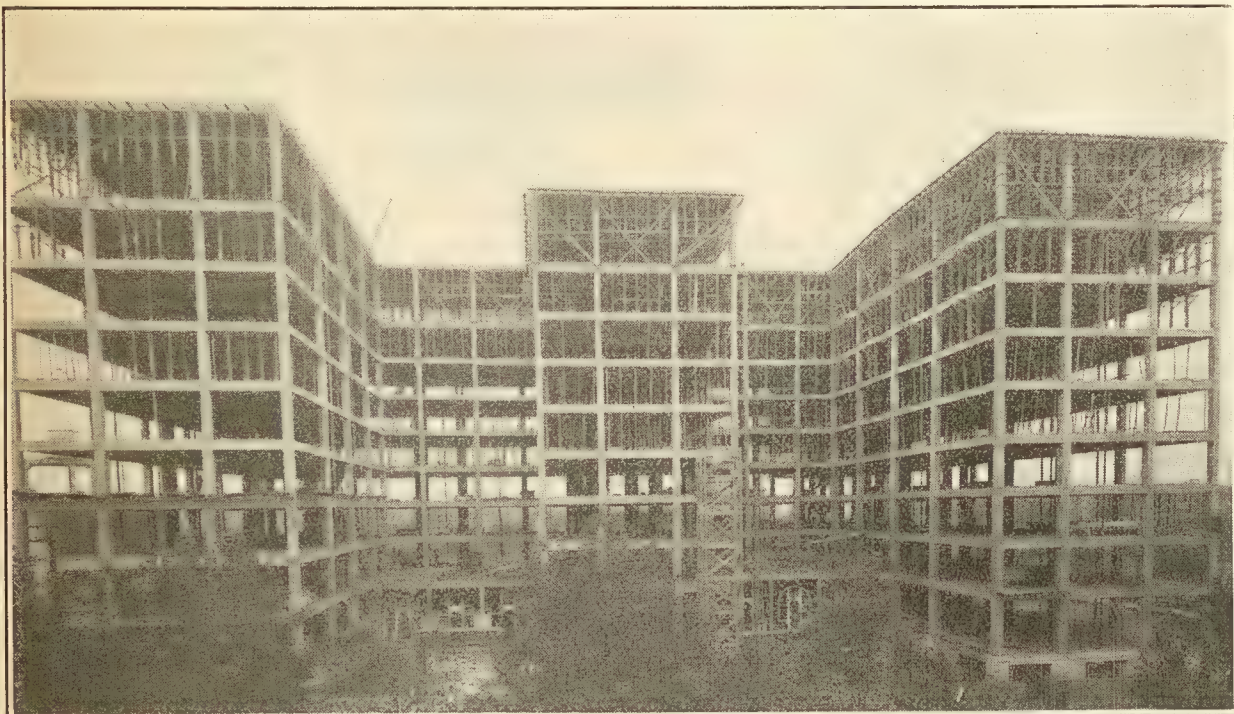
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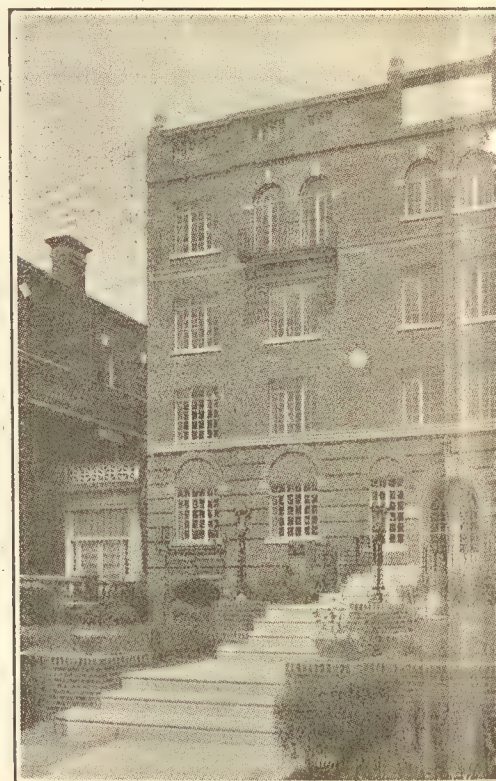
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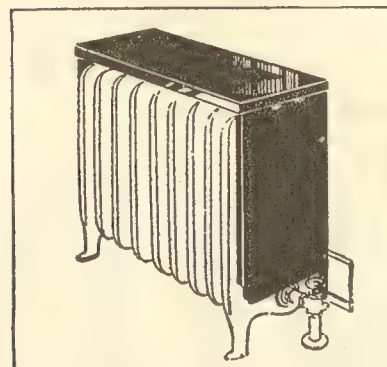
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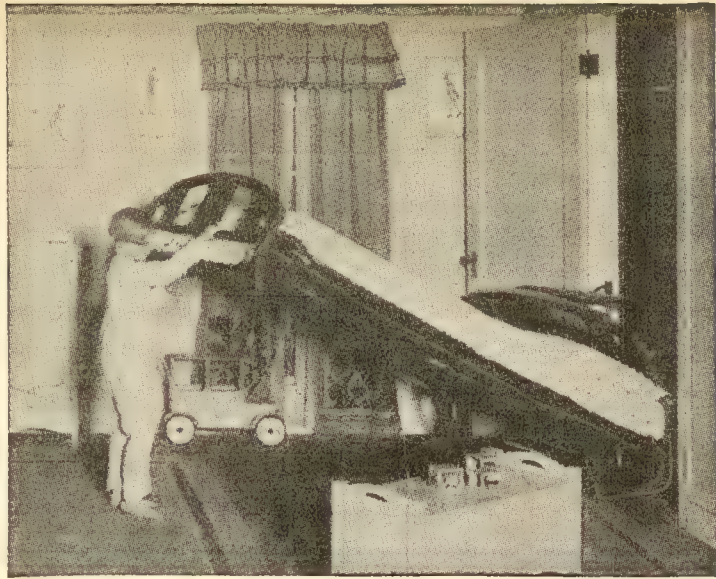
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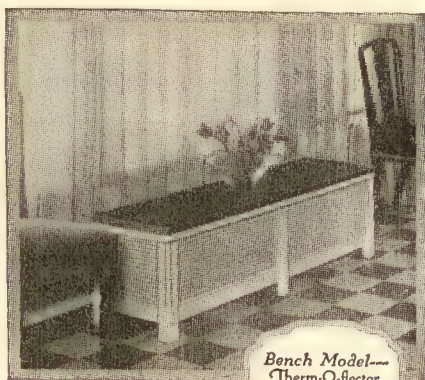
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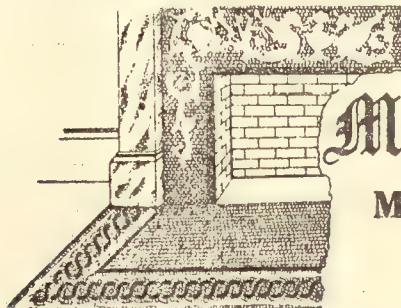
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Social Hall, Northampton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Sts. Peter and Paul Roman Catholic Sick & Benefit Society, care of V. Rebeasey, 1214 Mary street, Northampton, Pa. Brick, steel, 2 stories, 100x120 feet, asphalt roof, concrete and maple floors, vapor heat, electric light, bowling alleys. Michael Petrick, Northampton, Pa., will build. Plans in progress.

Creamery, Northampton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, John Simeo, Northampton, Pa. Brick, steel, 1 story, 50x60 feet, asphalt roof, concrete floors, electric work, steel sash. Plans in progress. Michael Petrick, Northampton, Pa., will build.

Residence and Apartment (add.), Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Elmer Fredericks, Souderton, Pa. Brick, 2 stories, 36x60 feet, general alterations and addition. Sketches drawn.

Residence, Bryn Mawr, Pa. Architect, J. Linerd Conarroe, 1518 Walnut street, Philadelphia. Owner, Malcolm Adam, Haverford, Montgomery County, Pa. Stone, 2½ stories and basement, 75x30 feet, slate roof, oak and pine floors, tile work, ornamental iron work. Architect taking bids due February 20th.

Residences and Garages (5), Merion Golf Manor, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Own-

er, W. H. Wilson, 1617 Walnut street, Philadelphia. Stone, hollow tile, stucco, various sizes, slate roof, electric light, tile work, hardwood floors. Plans in progress. Ready for bids in two weeks.

Residence, Retreat, Pa. Architect, Austin L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Central Poor District, Dr. Basket, Retreat, Pa. Brick, 2½ stories, 30x80 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Will be ready for bids next week.

Church and School (alts. and add.), Royersford, Pa. Architect, J. Vincent Polcy, 162 Second avenue, Royersford, Pa. Owners, Church of the Brethren, B. F. Rodler, chairman, Washington street, Royersford, Pa. Brick, 2 stories, 36x52 feet, slate roof, wood floors, partitions, plumbing, wood sash, steam heat, oil burner, electric light. Plans in progress. Owners will take bids.

Bridge over Harvery road over Badey's Run, Pa. Owners, Nether Providence Township Commissioner, J. Paul Palmer, Nether Providence Township, Pa. Reinforced concrete bridge, span 18 feet, roadway 20 feet. Owners taking bids due February 28, 8 P. M.

Day & Zimmerman, engineers, 112 North Broad street, Philadelphia, taking bids on the purchase of portable industrial steel building, 40x160 feet, 12 feet clear under trusses, arch, sash, doors and ventilators, for delivery to Gratersford, Pa. Bids due February 19th.

Hotel (alts. and add.), Phoenixville, Pa. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owner, name withheld. Changing first floor to store, brick addition 6x45 feet, tin roof, structural steel, cement work, plate glass. Architect will take bids in a few days.

Heating and Ventilating, repairs to Starr School, 5th and Welsh streets, Chester, Pa. Owners, School Board of Chester, S. E. Sanderson, Chester, Pa. Owners taking bids due Feb. 26th 8 P. M. Certified check, 10% or bid bond. Renewal of and repairs to present heating and ventilating system.

Fire House, Berwyn, Pa., \$30,000. Architect, J. B. Thompson, 1321 Arch street, Philadelphia. Owners, Berwyn Fire Co. No. 1, J. Edw. Stumpf, Chairman, Berwyn, Pa. Brick, stone, 2 stories 32x80 feet. Sketches drawn.

Residence and Garage, Drexel Park, Pa. Architect, Harold Edw. Williams, Drexel Park, Pa. Owner, Conrad J. Kearns, care of Moore & White, 15th street and Lehigh avenue, Philadelphia. Brick, 2½ stories and basement, 37x55 feet. Architect taking bids due Feb. 16th.

Road Work, Pennsylvania. Owners, Penna. Dept. of Highways, Harrisburg, Pa. Owners taking bids due March 1st.

Indiana Co., A-4849, East Wheatfield Township, 5,884 feet. One course reinforced concrete.

Cumberland Co., A-5729, Upper Frankford Township, 10,635 feet. Bituminous surface. Lehigh Co., Route A-6052, Coplay Borough, 1,125 feet. One course reinforced concrete.

Crawford Co., A-5418, West Mead Town-

ship, 7,110 feet. One course reinforced concrete.

Butler Co., R-75, A-5229, 5603 Center, Oak land and Concord Townships, 47,009 feet. One course reinforced concrete, 500 feet grading.

Carbon Co., R-5500 and A-5549, E. Mauch Chunk Borough and Mauch Chunk and Penn Rorrest Townships, 9,944 feet. One course reinforced concrete, 1,500 feet grading.

Armstrong Co., R-534, Wayne and Cowanshannock Townships, 13,228 feet. One course reinforced concrete.

Adams Co., A-5510, Conewago and Oxford Townships, 16,165 feet. Bituminous surface course.

Lackawanna and Wayne Cos., R 6, Carbon-dale and Canaan Townships, 11,113 feet. One course reinforced concrete, 1,245 feet grading.

Cumberland Co., A-5750, Newton Township, 19,321 feet. Bituminous surface course.

Jefferson Co., R-59, Sec. 2 Extension, Snyder Township, Brockway Borough, 4,212 feet. Reinforced concrete, 2,100 feet grading.

Mercer Co., R-238, Spur B and C, Shenango Township and Wheatland Borough, 22,377 feet. One course reinforced concrete.

Pike Co., A-5782, Delaware Township, 6,691 feet. Bituminous surface course.

Lackawanna Co., A-4717, Archbald Borough, 6,082 feet. One course reinforced concrete.

Westmoreland Co., R-119 Section 5 A, Unity Township, 200 feet. Bituminous surface course, 5,275 feet, one course reinforced concrete.

Lawrence Co., A-4916, North Beaver Township, 5,832 feet. One course reinforced concrete.

Lehigh Co., R-443, Sec. 2, A-5750, Upper Macungie and Weisenberg Townships, 10,583 feet. One course reinforced concrete.

Luzerne Co., R-369, A-4844, 5444, Plymouth Township, 9,321 feet. One course reinforced concrete, 1,110 feet of grading.

Northumberland Co., R 18, Milton Borough, 1,495 feet. One course reinforced concrete.

Lancaster Co., Providence Township, 7,927 feet. Macadam.

Columbia Co., Berwick Borough, 6,714 feet. One course reinforced concrete.

Tioga Co., R-102, Shippen Township, 2,275 feet. One course reinforced concrete.

Schuylkill Co., R-718, Ashland Borough, Butler Township, 4,916 feet. One course reinforced concrete.

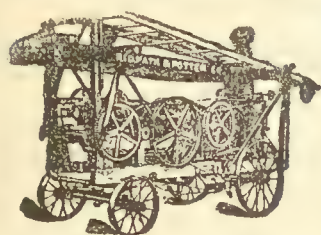
Pennsylvania Contracts Awarded

Service Building and Stone Wall, Fort Washington, Pa. Architects, William H. Lutton Co., Jersey City, N. J. Owner, Mrs. Richard M. Cadwalader, on premises. Stone, 2½ stories, 30x25 feet, shingle roof, cement floors (heating reserved), reinforced concrete, plastering, metal lath, steel casement windows, septic tanks, plumbing. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia, who is taking sub-bids due as soon as possible.

Church and Rectory, Darby, Pa. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Ownes, Church of the Blessed Virgin Mary, Rev. W. A. Fitzgerald, Darby, Pa. Stone, steel, reinforced concrete, 1 story, 60x144 feet 8 inches (plumbing, heating, electric reserved), slate and tin roof, concrete and tile work, oak floors, terrazzo, flagstone, cast stone, metal lath, waterproofing, area gratings, Lieperville stone, Foxcroft stone, Lenco or J. S. Thorn steel casement, Lupton metal frame and sash, Artstone, stucco, J. Emaek Co., variegated slate,

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\$1,000 allowance for hardware. Contract awarded McCloskey Co., 1620 West Thompson street, Philadelphia.

School Building, Blue Bell, Pa. Architect, W. K. Phillips, 213 South Fifth street, Philadelphia. Owners, Whitpain Township School Board, E. H. Phillips, Blue Bell, Pa. Contract awarded Potts Brothers, Ambler, Pa., \$61,225 (low on alternate). Heating, American Heating & Ventilating Co., Schaff Building, \$8,734. Plumbing, L. S. Schatz, Collegeville, Pa., \$2,317.

Barn Fire Repairs, Ardmore, Pa. Architect, Thomas Martin Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Merion Golf Club, Ardmore, Pa. Steam heat, electric work, carpentry and mill work, plumbing. Contract awarded Townsend, Schroeder & Wood, Drexel Building, Philadelphia.

Store (alts. and add.), 322 Lackawanna avenue, Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owners, Home Furniture Co., 226 Lackawanna avenue, Scranton, Pa. Brick, steel, 2 stories add., 25x100 feet, slag roof, maple floors, elevators, metal ceilings, hollow metal doors, heating extension. Contract awarded Thomas Palmer, Miller Building, Scranton, Pa.

Theatre (alts.), Taylor, Pa. Architects, Davis & Lewis, Scranton, Pa. Owners, Thomas Brothers, Taylor, Pa. Brick, limestone, steel, plastering, carpentry and mill work, metal lath, tile work, carpentry and mill work, painting and glazing, ornamental iron work. Contract awarded Stoffet & Tillotson, Wesley Building, Philadelphia.

Factory (add.), Morrisville, Pa. Owners, Robertson Art Tile Co., care of A. D. Forest, Morrisville, Pa. Brick, 1 story, 90x175 feet. Owners taking sub-bids. Concrete and carpentry work awarded to J. H. Morris Co., Inc., 211 North Montgomery avenue, Trenton, N. J.

Store (alts.), East Third street, Bethlehem, Pa. Architect, W. Z. Bane, Perkins Building, Allentown, Pa. Owner, N. Spear, 219 East Third street, Bethlehem, Pa. General alterations, tile, marble, copper, plastering. Contract awarded J. Kahn, 1736 Chew street, Allentown, Pa.

Residence (int. alts.), Paoli, Pa. Architect, Arthur H. Brookie, 254 South Fifteenth street, Philadelphia. Owner, Arthur G. Dixon, on premises. Paneling. Contract awarded R. C. Ballinger Co., 925 Walnut street, Philadelphia.

Residence (alts. and add.), Paoli, Pa. Architect, Charles A. Ziegler, 1012 Walnut street, Philadelphia. Owner, A. E. Pfahler, Paoli, Pa. Contract awarded W. D. Lukens, North Wales, Pa.

Twin Residences (2 pair), Manoa, Pa. Architect, John J. Carroll, 1619 Chestnut street, Philadelphia. Owner, name withheld. Brick, frame, 2½ stories, 16x39 feet, wood shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded T. S. Ralston, 10 South Eighteenth street, Philadelphia, who is taking sub-bids due as soon as possible.

Residence (alts. and add.), Main street, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, H. K. Freed, Main street and Fourth avenue, Royersford, Pa. Frame, 2 stories, 18x42 feet, tin roof, wood floors, plumbing, drainage, steam heat, electric light, wood sash, Morgan doors. Contract awarded Frank L. Walley, Spring City, Pa.

Strengthening Bridges (4 walls), Glenolden avenue, Glenolden, Pa. Architect, private plans. Owners, Commissioners of Delaware County, G. T. Wades, Media, Pa. Contract awarded C. A. McDonald, 809 North Sixty-third street, Philadelphia, \$27,000.

New Jersey Construction News

Bungalow, Venice Park, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, W. C. Willets, Murray avenue, Venice Park, Atlantic City, N. J. Brick, frame, 1½ stories, 20x44 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Sewage Disposal Plant, Barrington, N. J. Engineers, Remington & Vosbury, Camden, N. J. Owners, Borough of Barrington, N. J. Brick, steel, concrete. Engineers drawing plans. Project not approved.

New Jersey State Power Plant, State Office, Trenton, N. J. Associate architects, J. O. Hunt, Hunt Building, Trenton, N. J., and H. A. Kelly, 921 Bergen avenue, Jersey City, N. J. Owners, State of New Jersey, care of State House Commissioners, State House, Trenton, N. J. Stone, reinforced concrete, steel, granite, 2 stories, 55x100 feet, concrete roof and floors, roof ventilators, bond, grading, metal sash, tile, metal lath (boiler house equipment, electric and plumbing separate). Owners taking bids due February 18th.

Alterations to 4-Story Building, 2-Story Addition Store Building, Broadway and Pine streets, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, W. L. Hurley Co., on premises. Brick, limestone, steel, 2 stories and basement, 50x48 feet, slag roof, maple and cement floors, steam heat, electric light, metal lath, ornamental iron work. Architects taking bids due February 15th.

Store and Apartment, 745 Kaighn avenue, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, A. Gould, 5820 Pentridge street, Philadelphia. Brick, 2 stories, 19x59 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

Senile Building, Greystone Park, N. J. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies. William J. Ellis, Commissioners, State House, Trenton, N. J. Fireproof, 225x56 feet. Owners taking bids due February 26th.

Store Front (alts.), 2002 Atlantic avenue, Atlantic City, N. J. Architect, A. F. Amodio, Schwehm Building, Atlantic City, N. J. Owner, Ernest Schwehm, care of Mr. Meyers, Schwehm Building, Atlantic City. Vitrified brick, plate glass, oak floors, birch panels. Owner will take sub-bids.

Residence, Absecon, N. J. Architect, A. F. Amodio, Schwehm Building, Atlantic City, N. J. Owner, A. F. Amodio, Schwehm Building, Atlantic City, N. J. Brick and frame, 2½ stories, 24x44 feet, slate roof, oak floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Residence and Garage, Margate City, N. J. Architect, private plans. Owner, H. D. La Cata, Schwehm Building, Atlantic City,

N. J. Frame, 2½ stories, 8 rooms, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Factory (add.), Vineland, N. J. Architect, private plans. Owners, New Jersey Cast Stone Co., Vineland, N. J. Structural steel, cinder block, 1 story, 240x16 feet, concrete and asbestos block roof, concrete floors, hollow tile, roof ventilators, cast stone, fire doors, electric light. Owners taking sub-bids.

Office Building, Vineland, N. J. Architect, private plans. Owners, New Jersey Cast Stone Co., Vineland, N. J. Cinder block, hollow tile, cast stone, 2 stories, 110x22 feet, concrete floors, Barrett roof, electric light, fire doors, cast stone. Owners will build and are taking sub-bids.

Apartment House, Collingswood, N. J. Architect, Frank W. Hall, 130 South Fifteenth street, Philadelphia. Owner, name withheld. Brick, cinder block and stucco, 2 stories, 30x120 feet. Plans about completed. Ready for bids in one week.

Schools (4), Mantua, Thorofare, Colonial Manor, Verga, N. J. Architects, Edwards & Green, 548 Market street, Camden, N. J. Owners, West Deptford Township School Board, William F. Armbruster, Jr., Thorofare, N. J. Brick, 1 story each, slag roofing, maple floors (heating, plumbing and electric separate). Owners taking bids due February 26th. Deposit, \$25.00.

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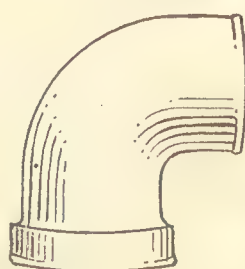
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ties, Route 3, N. J. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. (2) Bascule piers, (3) approach piers, concrete work, stone facing, reinforcing steel, foundation piles, creosoted fender piles, creosoted timber. Certified check, 10 per cent. Deposit, \$10. Owners taking bids due February 25th at noon.

Dyke in Delaware River near Hope Creek, Salem County, N. J. Owners, War Department, United States Government, care of Engineers' Office, Schaff Building, G. B. Pillsbury, Philadelphia. Dyke is 3,500 feet long, pile, timber, concrete. Specifications and drawings upon application. Owners taking bids due February 27th at noon.

Municipal Market, Loading Platform, Marquise Addition, Atlantic City, N. J. Architect, A. F. Amodio, Schwehm Building, Atlantic City, N. J. Owners, City of Atlantic City, care of Mr. Whitman, City Hall, Atlantic City, N. J. Brick, steel, 2 stories, 49x84 feet, slag roof, cement floors, tile, metal lath, steel sash. cinder block, ornamental sheet metal work, cut stone. Low bidders: 5 stores, Raymond Woehner, Venice Park, N. J.; 2 stores, Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City. Loading platform, Atlantic City Construction Co., Guarantee Trust Building, Atlantic City, N. J. Marquise, S. H. Headley, Guarantee Trust Building, Atlantic City, N. J. Plumbing and heating, Ferguson, Hempel & Meredith, 35 South South Carolina avenue, Atlantic City, N. J. Electric, Charles Miller, Pleasantville, N. J.

New Jersey Contracts Awarded

Residences (6), Absecon, N. J. Architect, private plans. Owner, J. O. Wilson, care of builder. Stucco, frame, 2 and 1½ stories, 6 rooms, shingle and tile roof, hardwood floors, hot water heat, electric light. Contract awarded H. D. La Cata, Schwehm Building, Atlantic City, N. J.

Residence, Mantoloking Beach, N. J. Architect, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, W. T. Hilles, care of architect. Frame, 2½ stories, shingle roof, pine floors, plumbing, electric. Contract awarded. Theo G. Clatts, Mt. Holly, N. J.

Well Pump and Pump House, Jamesburg, N. J. Architects, Division of Architecture & Construction, Trenton, N. J. Owners, Department of Institutions & Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, 1 story, 14x14 feet, tin roof, cement floors, steel sash. Contract awarded Suburban Eng. Co., 15 West Thirty-eighth street, New York.

Sewage Disposal, Stone Harbor, N. J., \$160,000. Engineers, Remington & Vosbury, Camden, N. J. Owners, Borough of Stone Harbor, Stone Harbor, N. J. Brick, steel, concrete. Contracts awarded Seaman & Letzkus, Stone Harbor, N. J.

Miscellaneous Construction News

Post Office Buildings, Wilmington, Ohio; Lancaster, Pa.; Dunkirk, N. Y. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Dunkirk and Wilmington: Plumbing, heating, gas piping awarded to W. J. Devinney, Tioga Trust Building, Philadelphia, who is taking sub-bids. Lancaster: Plumbing, heating, gas piping awarded to W. J. Devinney, Tioga Trust Building, Philadelphia, who is taking sub-bids, including 1,500 lineal feet excavation.

School, Sussex County, Milford, Delaware. Owners, State School Building Commission for the Milford School District, Col. Theodore Townsend, chairman; Dr. H. V. Holloway, superintendent, Dover, De. General construction, masonry, carpentry, steel, iron, roofing, painting (plumbing, heating, electric separate). Owners taking bids due March 1st at 11 A. M. Certified check, 5 per cent. Deposit, \$25, refunded, upon return of plans. Plans may be obtained from Delaware School Foundation, DuPont Building, Wilmington, Del.

School, Georgetown, Del. Architects, Gilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Supt., Dover, Del. Brick, concrete, steel, 2 stories and basement, 245x81 feet, wing, 50x71 feet, slag roof, cement and maple floors, ornamental iron, limestone. Low bidders:—Samuel Pasquale, Middletown, Del., \$159,400. Plumbing: T. T. Weldin & Son, 916 Orange street, Wilmington, \$12,757. Heating and Ventilating: Lewis Morgan & Son, Salisbury, Md., \$23,400. Electric: Electric Service Co., 706 West 4th street, Wilmington, \$4,350.

Miscellaneous Contracts Awarded

Sales and Service Building (alts. and add.), Eleventh and Tatnall streets, Wilmington, Del. Architect, Samuel Abramson, 770 South Schuylkill avenue, Philadelphia. Owners, Keil Motor Co., on premises. Reinforced concrete and steel, 3 stories add., demolition, brick work, cast stone, steel and iron work, slag roof, painting, glazing, plastering, marble work, metal lath. Contract awarded Dominic Cantera, 1504 Pennsylvania avenue, Wilmington, Del.

Residences and Garages (2), Ocean avenue, Newport, R. I. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owners, Misses Elsie and Phoebe Quimby, care of architect. Brick, 2 stories, 75x27 feet, 12x24 feet (hot water heat, electric light, plumbing reserved), slate roof, Ludiwici Brittany tile roof, hardwood floors, garden walls, cement floors, ornamental iron work. Contract awarded M. W. Young, 2037 North Sixty-third street, Philadelphia.

Residence (alts. and add.), Rock Hill, Md. Architect, private plans. Owner, George L. Rogers, on premises. Metal lath, plastering, carpentry and mill work, hardware, tin roof, shingle roof, excavation, concrete work. Contract awarded F. W. Van Loon, Perry Building, Philadelphia, \$10,000.

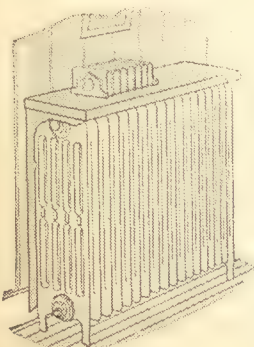
Office Bldg. (add.), Wilmington, Del., \$1,200,000. Architect Bernard Converse, DuPont Bldg., Wilmington, Del. Owners, Delaware Trust Co., Ninth and Market streets, Wilmington, Del. Brick, limestone, steel, 13 stories and basement, 2 wings, 135x52 feet each, steam heat, electric light, tile and marble work, metal lath, slag roof, cement floors, elevators. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia.

BUILDING VOLUME IN PENNSYLVANIA CITIES AND BOROUGHS FOR 1928 IS ONLY 4.1 PER CENT. BELOW 1927

According to reports of building permits submitted to the Department of Labor and Industry from 39 Pennsylvania cities and boroughs, the estimated cost of building construction, including additions and repairs, was \$12,296,192 for December, 1928. This amount compared to the \$12,197,253 building total reported by the same cities and boroughs for December, 1927, represents an increase for December, 1928, of \$98,839 or 0.8 per cent. Weather conditions more favorable for building construction prevailed throughout the month of December, 1928, than in December, 1927, as is indicated by the small decline of 2.7 per cent. in building construction employment for December, 1928, as compared with November, 1928, while for December, 1927, there was a 14.9 per cent. decline as compared with November, 1927.

Of the 39 cities and boroughs reporting for December, 22 reported increases over December, 1927, sixteen reported decreases, and one, Donora, reported no permits issued in December of either year. Of the 22 cities reporting increases for December, 1928, nine report increases in excess of \$100,000 each, as follows: Altoona \$677,908, or 940.9 per cent.; McKeesport \$227,690, or 354.8 per cent.; Wilkes Barre, \$206,855, or 221.0 per cent.; York, \$186,640, or 601.7 per cent.; Allentown \$152,275, or 57.7 per cent.; Johnstown \$151,135, or 940.8 per cent.; Meadville \$144,175, or 928.7 per cent.; Washington \$142,235, or 4258.5 per cent., and Jeannette \$103,000, or 3218.8 per cent. The other 13 cities that reported increases for December, 1928, over December, 1927, are listed below with the amount and per cent. of increase.

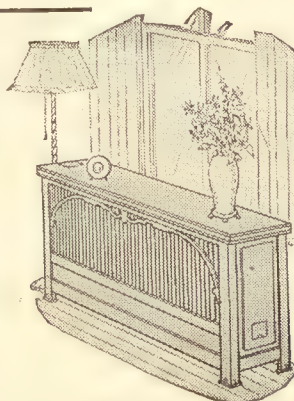
City	Amount of Increase	
	Per cent.	
Bradford	\$ 8,500	47.1
Carlisle	22,070	185.0
Erie	14,570	6.1
Hazleton	15,468	86.7
Lancaster	79,803	18.3



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Monessen	3,550	142.0
Monongahela	950	1900.0
New Castle	10,735	18.8
Pottsville	20,250	43.6
Scranton	49,650	26.9
Tyrone	1,000	200.0
Wilkesburg	38,876	274.7
Williamsport	93,250	214.3

Of the 16 cities that report decreases in building construction volume for December, 1928, from December, 1927, five report declines in excess of \$100,000 each, the city of Pittsburgh, leading with a decline of \$830,326, or 26.0 per cent; Philadelphia, second with a decline of \$492,610, or 8.1 per cent; Oil City, third, with \$453,107, or 96.0 per cent.; Reading, fourth with \$183,327, or 65.4 per cent.; and Easton, fifth, with \$133,320, or 73.9 per cent. The city of Harrisburg shows a decrease of \$78,425, or 60.8 per cent., and the remaining 10 cities show decreases of less than \$25,000 each as follows:

City	Amount of Decrease	Per Cent. Decrease
Berwick	\$ 1,750	32.9
Bethlehem	16,354	17.0
Bristol	21,100	95.5
Butler	9,160	60.6
Clairton	592	7.1
Duquesne	2,055	15.6
McKees Rocks	150	100.0
Sunbury	1,800	26.5
Uniontown	12,065	42.2
Warren	15,425	100.0

Comparable building construction data is available for the years 1928 and 1927 for 30 cities and 9 boroughs of Pennsylvania. The total estimated cost of construction work reported by these 30 cities and 9 boroughs was \$213,717,416 for the year 1928, compared to the total of \$222,843,983 for the year 1927, a decrease in 1928 of \$9,126,567, or 4.1 per cent.

Thirteen cities and boroughs report increases in the volume of construction for 1928 over the totals reported for 1927. Three of the 13 cities that exceed their 1927 totals by more than a million dollars each are as follows: Pittsburgh, \$2,270,200, or 6.1 per cent.; Harrisburg, \$2,057,535, or 57.6 per cent., and Bethlehem, \$1,400,157, or 56.4 per cent. Three others top their 1927 totals with increases between a quarter million and a half million dollars. These are Bradford, \$468,274, or 83.5 per cent.; Meadville, \$411,904, or 59.6 per cent., and York, \$287,398, or 18.1 per cent. The other seven cities that show increases for the year 1928 and the amount and per cent. of increase for each are listed below:

City	Amount of Increase	Per Cent. Increase
Altoona	\$183,857	6.0
Clairton	171,177	41.7
Donora	18,050	12.2

McKeesport	132,520	5.9
McKees Rocks	69,073	16.0
Monessen	110,130	28.4
Tyrone	24,300	8.7

The amounts of estimated cost of building construction reported by each of 26 cities and boroughs for 1928 are less than the amounts reported for 1927. Only 3 cities report decreases of more than a million dollars each — Philadelphia, \$5,356,565, or 4.6 per cent.; New Castle, \$1,568,470, or 51.6 per cent., and Scranton, \$1,300,249, or 22.1 per cent. Nine other cities report decreased amounts between a half million dollars and a million dollars as follows:

City	Amount of Decrease	Per Cent. Decrease
Allentown	\$653,129	9.9
Easton	567,422	43.7
Erie	629,368	11.7
Hazleton	576,776	33.3
Pottsville	580,765	28.8
Reading	834,538	17.9
Uniontown	909,256	57.7
Wilkes-Barre	942,472	19.2
Williamsport	634,520	23.1

The remaining 14 cities that report decreases in building construction for 1928, with their amounts and per cent. of decrease follow:

City	Amount of Decrease	Per Cent. Decrease
Berwick	\$ 80,775	52.6
Bristol	109,633	34.1
Butler	259,349	38.9
Carlisle	316,745	37.5
Duquesne	65,187	7.8
Jeannette	387,115	60.5
Johnstown	292,384	21.1
Lancaster	244,858	8.1
Monongahela	38,860	26.8
Oil City	128,640	9.1
Sunbury	136,284	35.7
Warren	111,620	19.7
Washington	2,973	0.6
Wilkesburg	3,189	0.2

Classification of the reports submitted to the Department for December, 1928, as to types of buildings shows a slight decline in December, 1928, in the number of new residential buildings to be erected. However, the average estimated cost of construction of new residential buildings for December, 1928, is \$765 more than for December last year, an increase of 11.7 per cent. New non-residential buildings likewise show a decline in the number to be erected in December, 1928, but with average estimated costs exceeding those for December, 1927, by more than \$1,132, or 8.4 per cent. The amounts to be expended for the construction of churches, factories, bakeries, laundries, etc., and for stores and other mercantile buildings in December, 1928, are far in excess of the 1927 amounts, while the amounts to be expended for amusement and recreation places, public and private institutions, and schools are considerably less for December, 1928, than for December, 1927. Less costly additions, alterations and repairs to buildings were made during December, 1928, than in December, 1927, as is shown by the average cost per building. The average cost of remodeling work as shown by the December, 1928, permits was \$1,677, as compared with an average of \$1,820 for December, 1927, a decrease in 1928 of \$143, or 7.9 per cent.

It was thought early in 1928 that the total of building construction work in Pennsylvania cities and boroughs for 1928 would fall considerably below the totals for the two years immediately preceding. However, the building record for 36 Pennsylvania cities and boroughs shows that the combined volume of building in these 36 places during 1928 was only 4.1 per cent. less than in 1927, and only 3.7 per cent. less than in 1926. With contract awards holdings up so well during the late months in 1928 there is reason to believe that building in 1929 will

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closely approach or possibly exceed the 1928 totals.

\$27,500 IN PRIZES OFFERED FOR SMALL HOUSE DESIGNS

Educational Program of Home Owners' Institute to Include the Largest Architectural Competition Ever Held in the Residential Field

Within a few weeks there will be officially announced the most extensive architectural competition for small house design ever undertaken in the history of the building industry. Not only is the amount of prize money, \$27,500, at least three times that of any other competition, but there are two special features of interest which are unique. The first is that this competition will be held in twelve regional districts of the United States and the national entries will be the winning designs of these districts. The second is that the winning designs in each of the regional districts will actually be constructed.

Raymond Hood, of New York and Chicago, internationally known as one of the leading architects of this country and a prominent member of the American Institute of Architects, has agreed to act as Chairman of the National Committee of Arrangements for this competition, and also as Chairman of the Jury of Award of the National Competition. Mr. Hood, aside from conducting a recent small house competition sponsored by the *Chicago Tribune*, has often been a member of competition juries and is unusually familiar with this type of educational activity, from which important contributions may be expected for the benefit of the home-building public. Mr. Hood is thoroughly familiar with the competitor's phase of architectural competitions, being himself (in association with John Mead Howells, of Chicago) the winner of the \$100,000.00 grand prize awarded by the *Chicago Tribune* in its International Architectural Competition for its own Tower Building in Chicago. Among Mr. Hood's other noteworthy architectural achievements may be included the American Radiator Company buildings in New York and London, and a large number of designs of buildings of all types. The primary reason for Mr. Hood's interest in this competition and his willingness to work with the Home Owners' Institute in its development is the hope that it may bring out a number of practical ideas for improvement in the design and the average cost of the American home, particularly in respect to efficiency of plan, with proper regard for the economies of good quality in construction and equipment to develop higher investment values.

CONSULTANT FOR COMPETITION PROGRAM

C. Stanley Taylor has been retained as consultant in the development of the competition program and the operation of the national and local competition involved. Mr. Taylor is President of the firm of Taylor, Rogers & Bliss, Inc., which is the leading consulting organization of the building field, and is a member of the firm of Lyon & Taylor, Architects and Building Consultants of New York, and Vice-President and Director of Research of National Building Publications, publishers of the *Architectural Forum*, *Building Age*, and many other publications which are closely affiliated with the building field.

Under the direction of these two men of outstanding reputation in the architectural profession and building industry it is anticipated that the program for the National Better Homes Architectural Competition will represent the most comprehensive and practical project of this kind ever undertaken.

In order to render this competition attractive even to leading architectural firms in the residential field, prizes amounting to \$27,500 will be awarded as follows:

A First Grand Prize of...	\$5,000.00
A Second Grand Prize of	3,000.00
A Third Grand Prize of	1,500.00
36 Regional Prizes of	
\$500 each	18,000.00

Total Prize Awards...\$27,500.00

It is quite probable that in addition to these prize awards several of the co-operating newspapers will offer special awards.

The general procedure in this proposed competition is as follows:

A geographical sub-division of the United States will be made, splitting the country into twelve areas, in accordance with the accompanying map. The first step of the competition will be that architects, draftsmen or architectural students will compete in a local competition, each within the area in which his home or home office is located. In each of these areas one popular newspaper will act in co-operation with the Home Owners' Institute, publishing the details of the competition and the prize winners. There will be a local Jury of Awards appointed in each area and consisting probably of three or more architects, a contractor and a real estate expert recommended by the National Real Estate Board. The local jury in each of the twelve areas will select the three prize-winning designs submitted. Each of these designs will be awarded a prize of \$500 in the local competition and the three designs will immediately be submitted to the National Jury.

This will provide 36 entries in the National Competition, from which the first, second and third prizes of \$5,000, \$3,000 and \$1,500, respectively, will be awarded.

UNLIKE OTHER COMPETITIONS

Unlike other competitions, the program will provide that competitors must design houses using nationally-advertised, trade-marked, high-grade materials which have national distribution. A definite outline specification will be provided with the competition program in order to produce a well-balanced practical home, and there will be certain plan restrictions which will insure practicability of the house for the average sized lot.

Two types of dwellings will be called for in this competition. In fact, it will be divided into two classes, and all competitors may submit as many designs as they wish. All designs must come under the following two descriptive classifications:

Class A—6 principal rooms, including at least 3 bedrooms, 1 bathroom and lavatory.

Class B—7 principal rooms, including at least 4 bedrooms, 2 baths and lavatory.

Each of the above types of houses will be given a cubic foot limitation, so that all houses will fall within two approximate cost limitations.

CONTRIBUTE TOWARD BETTER HOMES

While many small house competitions have been conducted in the past, it is obvious that with the tremendous volume of home building which is now going on, lessons are constantly being learned and planning is being made more practical and more efficient. There is a general trend in the United States today toward the use of materials and equipment of better quality and toward the elimination of high maintenance and replacement costs through the medium of good construction. There is a trend toward economy through more efficient planning and the architect's contribution to comfort and convenience without greatly increased cost has become generally recognized.

The moderate cost home building field is found in the following two popular ranges of cost: first, from \$7,000 to \$15,000, and from \$15,000 to \$25,000. It is this field that particularly needs the development and dissemination of practical information regarding home planning, construction and equipment. It is this field that needs to learn more completely and conclusively the lesson that cheapness does not represent sound economy.

The Home Owners' Institute, having developed and supervised the construction of model homes in more than sixty communities throughout the United States during the past three years, has decided that a National Architectural Com-

petition, such as that described herein, will result not only in the production of many interesting and practical dwelling plans, but in the development of planning and construction ideas of great value in their application to new homes everywhere. This question has been discussed with many prominent architects, with the National Association of Real Estate Boards, with editors of architectural and building publications, and with many others, all of whom have strongly approved this proposed program.

COMPETITIONS HERETOFORE LIMITED

During past years there have been a number of architectural competitions for small house designs, but as a rule each has been limited to one class of material or product, and accordingly has placed certain restrictions on the flexibility of the designer's thought. In the present competition the designer can use exteriors of any type and he will be given a broad enough outline specification so that no degree of flexibility is lost. Many plans which have resulted from previous competitions have shown an exceptionally high degree of artistic merit and many have been thoroughly practical in plan, but it is also true that perhaps the majority of plans submitted were impractical because of the high construction cost, wasteful floor planning, and "freak" design, which would result in a bad real estate investment. Also, many of those planned, while extremely attractive, have been so spread out in design that they could not be accommodated on the average lot held by the prospective builder of a moderate cost dwelling.

INFLUENCE OF LARGE PRIZE AWARDS

In reviewing the programs of various small house competitions which have been held in the past, it became apparent that probably the highest single award ever offered for the winning design has been \$1,500. The winner of the National Better Homes Competition will receive a prize of \$5,500. The total prize money involved in smaller competitions has probably never exceeded \$6,000 or \$7,000. The total of prizes offered in the Na-

tional Better Homes Competition is at least \$27,500. The total number of actual prize awards in any one previous small house competition has probably not exceeded fourteen. The total number of actual prize awards in the Better Homes Competition is thirty-nine.

Mr. Hood and Mr. Taylor both express themselves as believing that this prize of such a substantial nature should call forth the efforts of a large number of the more prominent architectural offices, particularly those skilled in domestic architecture, and for this reason the quality of the resulting plans should be of the highest degree ever attained in any National Competition of this nature and consequently of the greatest public value.

JUDGING THE DESIGNS

In each region the Competition will be conducted with the co-operation of a leading newspaper; newspapers generally that have been co-operating with Home Owners' Institute in its National Demonstration Model Homes Campaign. The entries will be submitted direct to the newspaper in each region. The regional designs as submitted will be judged by the specially appointed regional Juries of Award, which will in reality be regional architectural committees.

All regional Prize Winning Designs will be then assembled and judged for the Grand Prizes by the Jury of Award under the Chairmanship of Mr. Raymond Hood, A. I. A. There may be additional regional prizes offered. Several newspapers have already signified their desire to offer additional prize awards regionally. The Juries of Award, both regional and national, will be organized to consist of a majority of architects, together with at least one real estate expert and one experienced building contractor to check on the occupancy and constructional values of the design. It is desired above all things that the house plans produced through this competition will be not only of a high degree of architectural merit, but will be practical from the points of view of real estate values, constructional

integrity and sound construction economies.

BUILDING THE PRIZE DESIGNS

The last and perhaps the most interesting and important feature to result from the National Better Homes Architectural Competition will be the ultimate construction of prize-winning designs throughout the country. Each prize design (possibly some of the honorary mention designs) will be constructed, directly following the conclusion of the Competition, in the regions where the plans are originated.

Of greatest value will be the actual construction cost figures made available as a result of their actual construction, simultaneously, throughout the United States. In this the National Association of Real Estate Boards has agreed to aid. The findings will be of considerable value to that and to other organizations, as well as to the architects and builders, and the general home-seeking public.

ARCHITECTURAL SUPERVISION

As heretofore in the construction of demonstration model homes in connection with campaigns conducted under the auspices of Home Owners' Institute, the prize design model homes will be built with local architectural supervision, so that, without question, each designer's plans, the specifications and the actual work of construction will be properly interpreted in the finished model homes.

Coincident with the building of the prize designs, the co-operating newspapers, additional newspapers, and many magazines in the architectural and home-building fields, will aid in the educational program by publishing illustrated articles on the progress of construction and the cost findings. This support has already been definitely pledged by many.

PROGRAMS

Programs for this competition may be obtained when they are ready by addressing Home Owners' Institute, 441 Lexington Avenue, New York City.

I make it a rule never to write a grouchy letter—I telephone.

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VENTILATE PUBLIC GARAGES

The extent to which thousands of automobile owners are exposed to the poisonous fumes of carbon monoxide in many public garages which have inadequate equipment for positive mechanical ventilation of their driving and storage space, should be a matter for special investigation by health authorities.

This is especially true during the cold season of the year when garages are packed to capacity with cars which entail the almost constant running of many engines with a steady outpour of the deadly burned gas. In some cities, ordinances require changing the air completely a specified number of times every hour and to meet these requirements the large garages have installed exhaust fans and other equipment for controlling air conditions. The trouble is, however, that even in these places, it has been found that the equipment is not operated sufficiently, if at all.

Every year, there are hundreds of accidental deaths caused by carbon monoxide. That is the spectacular feature of it. But there are no statistics available which reveal the thousands of persons who are annually poisoned by carbon monoxide without fatal results. Their bodies are weakened for easy attack by disease and their health jeopardized by this vicious poison. It is an unseen enemy which strikes insidiously and without warning. Physicians have found that even a small amount of carbon monoxide has a very deleterious effect on the blood and brings about organic disorders.

The smaller type of garage can be made safe by the use of exhaust fans, ventilating experts have found, but larger garages, where numerous cars are operated, should provide a properly designed exhaust system of ducts connected to suitable exhaust fans. Tests have shown that climatic conditions vary so much that vitiated air will not exhaust by natural means through vents located on the roofs. The air and gases must be driven out by fan action.

Several of the largest automobile manufacturers are to be congratulated on their efforts to protect the public health by insisting that their branch distributors and dealers provide controlled mechanical ventilation in their garages and service stations. One leader in the industry sent out a message to its dealers which should be seriously read and acted upon by every garage operator and service manager. This bulletin should be posted up on the door of every garage:

"The repair room, where the mechanics are making adjustment of carburetors or testing engines, should by all means be amply ventilated at all times. In fact, special attention should be given to this room, to provide sufficient ventilation in order to protect the workmen properly.

It is a good plan to have flexible metal hose connections, with a series of adapters, so that the exhausts of the cars being tested may be connected to duct outlets where there is sufficient mechanical draft to expel the gases.

"During the rush periods, when the greatest number of cars are either going out or coming in, the generation and accumulation of gases become the greatest. Therefore, during these periods the ventilating equipment should be operating continuously at maximum capacity, in order to exhaust the vitiated air as quickly as possible."

Physicians of the public health service have urged that the air in all garages should be completely changed at least five times every hour. This, it is pointed out, would be sufficient to dilute the deadly gases as to remove serious danger of poisoning.

PREVENT FIRE

By W. E. MALLALIEU

General Manager of the National Board of Fire Underwriters

Do we build to burn? Naturally, we answer that we do not build to burn—purposely. The fact remains, however, that inferior construction, knowingly erected, is given as one of the chief causes of the flaming annual sacrifice to the gluttonous god of fire.

Construction which does not render a building permanently rigid and reasonably safe from destruction by fire and other elements proves costly in the long run. The purchaser of a cheap house is often disappointed in what he buys, and developers are discovering that it does not pay to offer poorly constructed homes for sale because home seekers are now aware that this kind of dwelling makes a bad financial investment. It is poor judgment to build or buy a house in which cheap materials and methods have been used.

How can a building be constructed to resist fire? First, the plans must be designed by someone who will give thought to that phase of the building problem. In the past, many developers have been chiefly concerned with the three factors of appearance, arrangement and cost, giving little consideration to the element of safety. Now, however, some designers are making a study of fire prevention engineering, and architects and engineers generally are more interested than formerly in preventing fires.

Next must be considered the materials which go into the fire-resistive building. It is essential, if the structure is to last, and not burn, that they shall be the best that cost and other conditions warrant. Many building materials have been tested

by severe fire conditions under expert control and observation, for the purpose of determining their quality, and it is now possible to know whether they are worth using before actually employing them. Even in dwellings some materials should be incombustible, although many of them, of course, cannot be.

Among the worst defects in the majority of dwelling houses are the open passageways in frame walls and partitions. If fire starts in the cellar or basement, these openings act as flues to carry smoke and flames to the attic; if it occurs in the upper part of the house, on the other hand, sparks may fall into the hollow spaces. In either case the fire has had an opportunity to spread. Many dwellings which have burned to the ground could have been saved with only partial damage had attention been given to fire-stopping when they were built. By fire-stopping is meant cutting off each floor from that above and below, so that fire cannot spread without actually burning through the floor. The material used should be incombustible and laid only by experienced and scrupulous workmen. Simply nailing in pieces of left-over wood will not afford sufficient protection.

In view of the staggering annual fire loss in the United States, it is interesting to note what is being done to improve construction. Better conditions are gradually being brought about by the competent enforcement of sound building laws. Many of them follow closely the recommended Building Code of the National Board of Fire Underwriters, which details specifications for safe construction; buildings designed in accordance with this code will be as well built and protected as the quality of the materials used will permit.

For owners of dwellings and for carpenters and builders, the National Board has issued a code of suggestions in regard to construction and fire protection, which is recommended to safeguard homes and lives against the ravages of fire.

A Standard Ordinance for Building Construction, recommended by the National Board and recently published as a third edition, provides specifications for safe chimney construction. This ordinance has been reviewed and formally approved by various national organizations interested in the building industry and well qualified to judge of its merits. —*Building Developer.*

The time to save the building is when the plans are on the drafting board is the new cry for fire prevention.

Many a man would do a better job if he didn't know about putty.—*Ex.*

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.

John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard Sts., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

S. Libman, 629 College Ave., Pittsburgh, Pa.
Malia, Thos. J., 226-32 W. Mentor St., Phila.

Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.
New Jersey Cast Stone Co., Vineland, N. J.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.

The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub. Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.

Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.

Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Weil, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

FIRE-PROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING-COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

GUARDS (Machine and Engine)

Strandwitz & Scott, Inc.,
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HEATING CONTRACTORS

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HOLLOW TILE

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Cox, Janeway & Co., Real Estate Trust Bldg., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

Whartenby, Harry A., 1823 Brandywine St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Weil, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

LUMBER

Ketcham, Howard, 3rd and Girard Ave., Phila.

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

MARBLE

Frank W. Butterworth, 1518 Walnut St., Phila.

MARBLE AND MOSAIC

Belfi Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

MASON BUILDER

D'Lauro, John, 7732 Ardleigh St., Phila.

METAL DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

METAL LATH

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

METERS

Phila. Meter Co., Real Estate Trust Bldg., Phila.

MILLWORK

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

PAVING BRICKS

Ketcham, O. W., 121 N. 18th St., Phila.

PHOTOSTATS

Weber, F., Co., 125 S. 12th St., Phila.

PILES

Foundation & Construction Co., 1320 Race St., Phila.

PLASTER (Colored)

California Stucco Products Co., 1316 Olive St., Phila.

PLASTER BOND

PLASTERERS

Keen Bros., Merchantville, N. J.

PLASTERING (Ornamental)

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

PORCH ENCLOSURES

Malia, Thos. J., 226-32 W. Mentor St., Phila.

RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

RADIATOR SHIELDS AND CABINETS

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J. D. Gerken Co., 1015 Chestnut St., Phila.

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Philadelphia Gas Range Co., 1026 Arch St., Phila.

REINFORCING BARS

Milton Mfg. Co., Milton, Pa.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Penn Steel Service Co., Fuller Bldg., Phila.

ROAD MACHINERY

Service Supply Corp., 20th and Venango Sts., Phila.

ROLL SCREENS

American Metal Weatherstrip Co., 2115 Diamond St.
Malia, Thos. J., 226-32 W. Mentor St., Phila.

ROOFING

John Nacey Co., 7254 Paschall Ave., Phila.

Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING MATERIALS

MacGarvie, James B., Magnolia, N. J.

John Nacey Co., 7254 Paschall Ave., Phila.

Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING SLATE

Chapman Slate Co., Bethlehem, Pa.

ROOFING TILE

Hood Tile Co., S. E. Cor. Chestnut & 13th Sts., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

SAFETY TREADS (Grating)

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

SAND AND GRAVEL

Charles Warner Co., Union Bank Bldg., Phila., Pa.

The Van Sciver Corporation,
The Parkway at 24th St., Phila.

SAND BLAST CLEANING

Atlas Sand Blast Co., 4238 Market St., Phila.

SCAFFOLDING

Patent Scaffolding Co., 2835 Bridge St., Phila.

SCREENS (Fly)

Malia, Thos. J., 226-32 W. Mentor St., Phila.

SEPTIC TANKS

Philadelphia Septic Tank Co.,
1129 Glenwood Ave., Phila.

SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

SHEET METAL WORK (General)

Strandwitz & Scott, Inc.,
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SHEETROCK (Wall Board)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

SHELVING (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

SOUNDINGS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

STEEL SASH

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

David Lupton's Sons Co.,
Allegheny Ave. and Tulip St., Phila.

STONE

St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

STUCCO MANUFACTURERS

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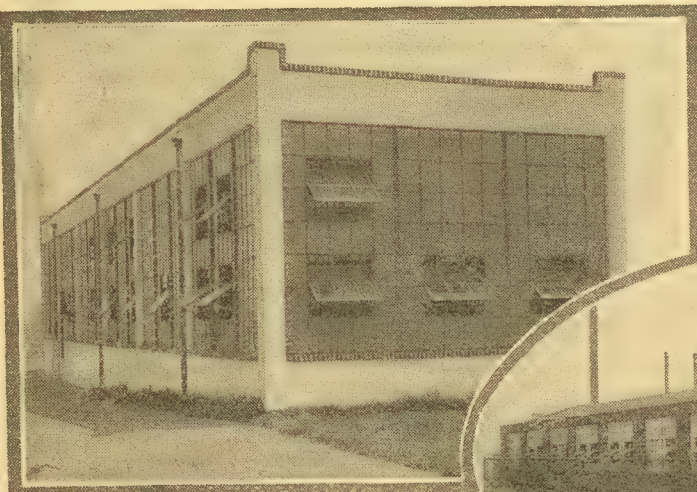
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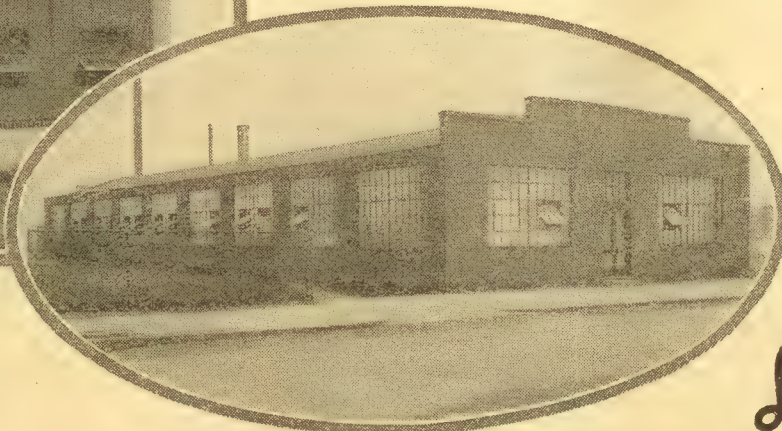
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Vol. XLIV, No. 8
February 20, 1929

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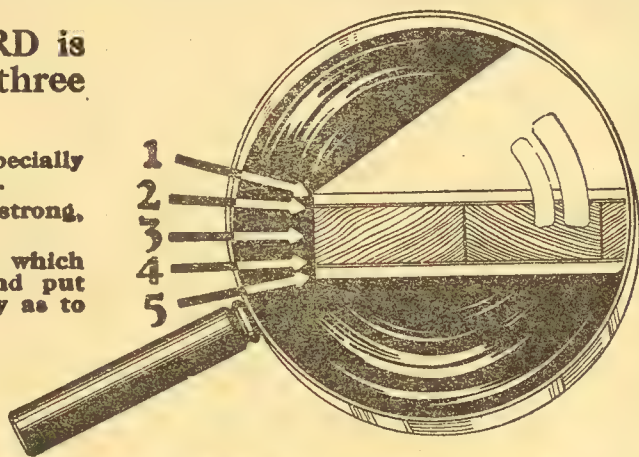
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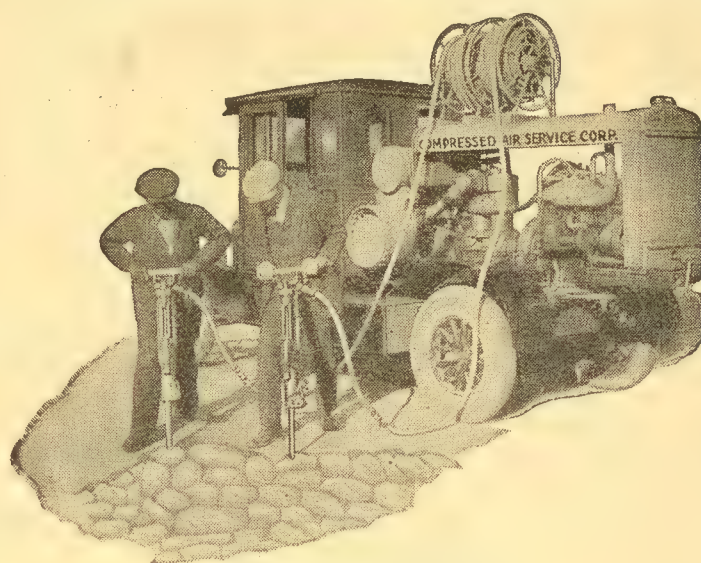
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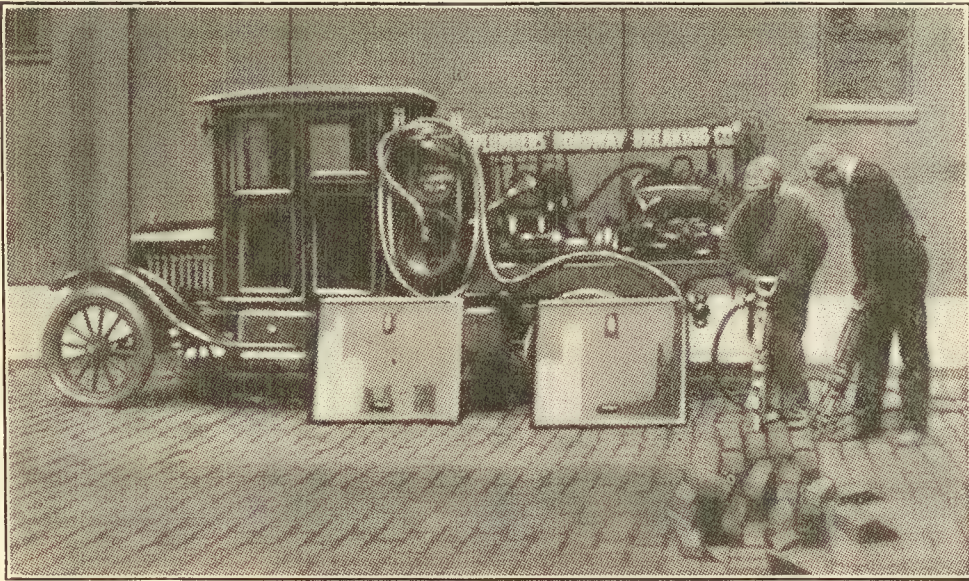
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VOLUME XLIV

Number 8

PHILADELPHIA

February 20, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (26), Roosevelt Boulevard-Whittaker avenue, Philadelphia. Architect, Charles Clifton, 3400 Tudor street, Philadelphia. Owner, name withheld. Brick, 2 stories and basement, 16x60 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Plans in progress.

Stores and Residences (5), South Lycoming, East of Glendale street, Philadelphia, \$22,500. Architect, private plans. Owner, R. A. Mantell, 2452 Mansfield street, Philadelphia. Brick, 2 stories, 18x60 feet, hot water heat, electric light, slag roof, oak and pine floors. Owner will build.

Residence Operation, Malvern avenue and Northeast corner 58th street, Philadelphia. Architect, private plans. Owners, Madway & Madway, 4218 Lancaster avenue, Philadelphia. Brick, plot 385x277 feet. Plans in progress, details undecided.

Arena (rebuild), Forty-sixth and Market streets, Philadelphia, \$1,000,000. Architects and engineers, Funk & Wilcox, Boston, Mass. Owners, Fried & Fishman, on premises. Reinforced concrete, brick, steel, terra cotta, 214x324 feet, gypsum roof, reinforced concrete, electric light, skating rink, 190x80 feet. Plans in progress.

Powelton Sub-Station, Thirty-eighth and Cuthbert streets, Philadelphia. Owners, Philadelphia Electric Co., Mr. Zerbe, Tenth and Chestnut streets, Philadelphia. United Constructors & Engineers, care of Mr. Itel, Broad and Arch streets, Philadelphia, will build. Plans in progress.

Temple of Youth, Parkway at Twenty-second

street, Philadelphia, \$175,000. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Philadelphia Council of Boy Scouts of America, care of Dr. C. D. Hart, 1924 Chestnut street, Philadelphia. Indiana limestone, brick, steel, concrete, 3 stories, 84x60 feet, tile and hardwood floors, slate roof, electric light, will contain offices, club rooms, etc., fountain. Plans in progress. Will take bids in about six weeks.

Theatre, Fifty-second and Stiles streets, Philadelphia. Architect, William H. Lee, Schaff Building, Philadelphia. Owner, Charles Segal, care of Apollo Theatre, 1237 North Fifty-second street, Philadelphia. Brick, steel, concrete, 2 stories, 78x100x250 feet, gypsum slag roof, hot air heat, tile, marble and terrazzo work. Ready for bids in a week.

Residences (41), Walnut lane, between Seventy-fifth and Seventy-fourth avenues, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, Frank Kiely, 7032 Green street, Philadelphia. Brick, 2 stories, 15x50 feet, slag roof, hardwood floors, hot water heat, electric light. Plans in progress. Owner will be ready for sub-bids in one week.

Twin Residences (22), location withheld, Philadelphia. Architect, F. W. Hall, 130 South Fifteenth street, Philadelphia. Owner, name withheld. Brick, concrete block, stucco, 2 stories, 32x46 feet, tile and slag roof, hardwood floors, hot water heat, electric light. Plans in progress. Ready for sub-bids March 1st.

Residences (31), Sixteenth and Sparks

streets, Philadelphia. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, J. M. Snyder & Son, 1245 Alcott street, Philadelphia. Brick, 2 stories, 15x42 feet, slag and slate roof, hardwood floors, cement work, garage in basement, hot water heat, electric light, metal lath, tile work. Owners ready for sub-bids.

Residences and Garages (50), Roxborough, Philadelphia. Architect, private plans. Owner, Joseph McGlory, 2074 North Sixty-second street, Philadelphia. Brick, stone, 2 stories, 16x48 feet, slag and slate roof, hardwood floors, tile work. Owner taking sub-bids due at once. Plans on file at 4010 Lauriston street, Roxborough.

Residences (58), Bouvier, between Godfrey and Medary streets, Philadelphia. Owners, Cutler & Brenner, 1811 North Seventh street, Philadelphia. Brick, 2 stories, hot water heat, electric light, hardwood floors, tile work. Plans in progress. Owners will build and will take sub-bids March 15th.

Residences (28), Robbins, near Frankford avenue, Philadelphia. Architect, private plans. Owner, Thomas J. Kelly, 2028 Sixty-sixth avenue, Philadelphia. Stone, brick, 2 stories, 18x32 feet, tin and slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build and will be ready for sub-bids March 1st.

Store and Apartment (alts. and add.), 1412 South street, Philadelphia. Architect, Benjamin Shulman, 1722 Arch street, Philadelphia. Owner, Louis Wiser, on premises. Brick, 2 stories, 16x20 feet, interior alterations. Owner will build.

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Fabricating Shop, Warehouse and Office Building, Gibson street, between Fifty-fourth and Fifty-sixth streets, Philadelphia. Architect, not yet selected. Owners, Ford & Kendig, care of Thomas J. Williams, 1428 Callowhill street. Work contemplated. Architect will be selected in one month.

Residence, Roosevelt Boulevard, Philadelphia. Owner, Charles Clifton, 3400 Tudor street, Philadelphia. Brick, stone, 2 stories, 16x60 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence and Office (alts. and add.), 4728 Griscom street, Philadelphia. Architect, Christian H. Fries, Frankford and Oxford street, Philadelphia. Owners, Dr. M. M. Carty and Dr. R. B. Willrick, care of architect. Brick, 1 story add., 15x20 feet, 10x18 feet, slag roof, hardwood and composition floors, office partitions, plumbing, electric light, tile work. Architect taking bids due February 23rd.

Addition, West side Thirty-second, South of Reed street, Philadelphia, Pa. Architect, Edward A. Roth, 1050 Drexel Building, Philadelphia. Owners, The Goodimate Co., Ruben Lipsky, president; Louis Lipsky, vice-president; Isador Lipsky, secretary and treasurer, 1007 Market street, Philadelphia. Brick, reinforced concrete, brick, 4 stories and basement, 264x63 feet, excavation, ornamental iron work, steel sash (Truseon Steel), carpentry and mill work, pine floors, caulking, iron grating, tin-clad and kalamein doors, cinder block, Carey built-up roof, plastering, cast stone (Onandago Economy, Paul & Russell or equal), steel doors (Cornell Iron Works). Architect taking bids due February 21st.

Apartment House, Germantown, Pa. Architect, H. B. Tobias, Otis Building, Philadelphia. Owner, name withheld. Brick, steel, 4 stories and basement, 60x90 feet, garage, 1 story, 16x100 feet, hot water heat, electric light, tile work, slag roof, hardwood and cement work. Plans in progress.

Residence, Fox Chase, Pa., \$30,000. Architect, C. H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, name withheld. Stone, 2½ stories, 33x40 feet, slate roof, hardwood floors, hot water, electric light, tile work. Plans in progress. Ready for bids in one month.

Building, 328 West Cheltenham avenue, Germantown, Philadelphia. Architect, Clyde Adams, 2038 Spruce street, Philadelphia. Owners, Collins Health Institute, on premises. Architect taking bids due February 25th.

Ward Building A and J Extension of Conversation Hall, Holmesburg. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Philadelphia County Prison, W. H.

Heston, Tenth and Reed streets, Philadelphia. Holmesburg granite, brick, 1 story, 51x370 feet. Low bidders: McCloskey Co., 1620 Thompson street, \$277,77, \$312,597, \$10 yard; J. N. Gill Construction Co., 1500 Chestnut street, Philadelphia, \$280,537, \$303,786, \$20 yard. Plumbing, Jacob Bugger, 2124 East Cumberland street, \$18,172; heating, J. H. Hutchinson, 1020 Callowhill street, \$42,871; electric, O. W. Lynch, 5743 Ogontz avenue, Philadelphia, \$4,500.

Recreation Centre, Twenty-sixth and Master streets, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Owners taking bids due February 27th for painting, interior and exterior. Certified check, 5 per cent.

Supplies, Philadelphia. Owners, Department of Supplies, T. F. Watson, 329 City Hall. Owners taking bids due February 26th for lumber, steel shelving units. Certified check, 5 per cent.

Apartment House, 255 West Tulpehocken street, Philadelphia, \$325,000. Architect, private plans. Owners, Overbrook Garden Construction Co., Northeast Corner Sixty-third and Jefferson streets. Brick, 4 stories, 155x227 feet, hot water heat, electric work, oak and yellow pine floors, slag roof, tile work. Permit issued.

Apartment House, 247 West Tulpehocken street, Philadelphia, \$220,000. Architect, J. E. Fieldstein, 112 South Sixteenth street, Philadelphia. Owner, Michael S. Kirschner, 2419 North Fifty-sixth street, Philadelphia. Brick, 4 stories, 132x183 feet, hot water heat, electric work, slag roof, oak and yellow pine floors, tile work. Permit issued.

Residences (15), East side Frankford avenue, North of Comly street, Philadelphia, \$63,000. Architect, private plans. Owners, Kuhn & Lowery, Fifth and Rockland streets, Philadelphia. Brick, 2 stories, 16x30 feet, hot water heat, electric work, slag roof, oak and yellow pine floors, tile work. Permit issued.

Residences (4), South side Lansang, West of Frontenae street, Philadelphia, \$16,000. Architect, private plans. Owner, Harry Perlman, 1225 Cottman street, Philadelphia. Brick, 2 stories, 16x48 feet, hot water heat, electric work, slag roof, oak and yellow pine floors. Permit issued.

Greenhouse, South side Pine street, West of Thirty-seventh street, Philadelphia, \$5,000. Architect, private plans. Owners, University of Pennsylvania, on premises. Iron on iron, 18x76 feet 9 inches. Permit issued.

Residences (2), South side Brewster avenue, West of Eighty-seventh street, Philadelphia, \$5,000 each. Architect, private plans. Owner, Lewis L. Pitchford, 3228 South Eighty-seventh street, Philadelphia. Brick, 2 stories, 16x38 feet, hot water heat, electric

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Office (alt.), East side Germantown avenue, South of Erie, Philadelphia, \$4,000. Architect, private plans. Owners, Philadelphia Rapid Transit Co., Mitten Building, Philadelphia. General interior alterations. Permit issued.

Residence, 8130 Mingo avenue, Philadelphia, \$4,000. Architect, private plans. Owner, Antony Rizzo, 8140 Mingo avenue, Philadelphia. Brick, 2 stories, 16x29 feet, hot water heat, electric work, slag roof, oak and yellow pine floors. Permit issued.

Residences (20), East side Elsinore, North of Erie avenue, Philadelphia, \$102,000. Architect, private plans. Owner, Harry Platt, 1211 Chestnut street, Philadelphia. Brick, 2 stories, 16x16 feet 6 inches, hot water heat. Permit issued.

Warehouse, Southeast Corner Tenth and Rising Sun avenue, Philadelphia, \$3,500. Architect, private plans. Owner, Peter M. Renter, 1043 West Venango street, Philadelphia. Reinforced concrete, 1 story, 66x26 feet, cement floors, slag roof. Permit issued.

Residences (16), 305-335 East Gale street, Philadelphia, \$72,000. Architect, private plans. Owners, P. & G. J. Hermann, 430 Duncan street, Philadelphia. Brick, 2 stories, 15x29 feet 9 inches, hot water heat, electric work, slag roof, oak and yellow pine floors. Permit issued.

Asphalt Paving. Owners, Bureau of Highways, Department of Public Works, City of Philadelphia. Schedule A—Algard street, from Robbins to Levick street, Philadelphia; Montgomery Paving Co., Harrison Building, Philadelphia, \$6,595.20. Benner street, from Large to Vastor avenue, Philadelphia; Montgomery Paving Co., Harrison Building, Philadelphia, \$8,066.90.

Schedule B—Contry road improving. Shelmire street, from Loretto to Castor avenue, Philadelphia; Curtis Brothers, State road, Tacony, \$3,007.50.

Schedule C—Redressed granite block repaving. Rising Sun avenue (track area), across the Roosevelt Boulevard, Philadelphia; Aechione Contracting Co., 1607 McKean street, Philadelphia, \$6,283.25.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Church and School, Cottage and Vincent streets, Philadelphia. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Bernard's Roman Catholic Church, Rev. Father Hoolihan, 7141 Cottage st., Phila. Stone, cast stone, steel 3 stories and basement, 130x70 feet, bond, floor hardener (Lapedolith), excavation, waterproofing (Aquaber), integral cinder block (Straub or equal), granite sills, tile work, steel stairs, sash (Fenestine or equal), kalamein doors, fire doors, brass threshold, built-up roof, roof ventilators (Royal or equal), caulking, maple floors, metal lath, plastering. Contract awarded Morlock Davis Co., Fifteenth and Race streets, Philadelphia.

Auto Show Room (alts.), 6409 Market street, Philadelphia. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owners, Gehris Motor Car Co., 6409 Market street, Philadelphia. Mill work, steam heat, hardware, painting, glazing, plate glass, structural steel, stone foundations, plastering, brick work, electric work. Contract awarded Louis N. Devons, 13 North Thirtieth street, Philadelphia.

Benjamin Crispen School, Rhawn and Dit-

man streets, Philadelphia. Architect, Irwin T. Catherine, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, William Rowen, president, Nineteenth and Ludlow streets, Philadelphia. Contract awarded McCloskey Co., 1620 Thompson street, \$133,469; plumbing, Jacob Brugger, 2124 East Cumberland street, Philadelphia, \$9,250; heating, McClintock & Co., 5608 Race street, Philadelphia, \$9,645; ventilating, A. & W. Wegman, 2813 West Fletcher street, Philadelphia, \$545; electric, Harry W. Hart, 7010 Ditman street, Philadelphia, \$2,650.

Store and Apartment (alts.), 4418 Germantown avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Stephen Haas, Land Title Building, Philadelphia. New front, plate glass, painting, glazing, carpentry, mill work, plastering, metal ceilings. Contract awarded Frank V. Radomski, 4329 North Sixteenth street, Philadelphia.

Building (alts. and add.), Southwest Corner Bridge and Richmond sts., Philadelphia. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owners, Charles Lennig & Co.,

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Bridge and Richmond streets, Philadelphia. Brick, steel, 2 stories and basement, 36x75 feet, slag roof, cement floors, hot water heat, electric light, plumbing, glazing, painting. Contract awarded Rumpf & Kohlmeyer, 3543 Germantown avenue, Philadelphia.

Filling Station, Rising Sun avenue and Martin's Mill road, Philadelphia. Owners, Gulf Refining Co., care of Charles Kahn, Provident Trust Building, Philadelphia. Straub cinder block, stucco, shingle roof, cement floors, 1 story, 5x15 feet. Contract awarded Harry G. Walters, 412 North Fortieth street, Philadelphia.

Bank and Office Building, 3701 North Broad street, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Bank of Philadelphia & Trust Co., Charles E. Buery, chairman, 3701 N. Broad st., Phila. Brick, granite, architectural terra cotta, steel, 11 stories and basement, 100x70 feet, bond, excavation, reinforced concrete work, cement floors, fireproofing, hollow tile (Wilkes-Barre Clay Products or A. S. Reid), gypsteel tile (Structural Gypsum Corporation), gypsum roof slab (Gypsum Corporation or equal),

Deer Island pink granite, auqua Freestone (George Washington Stone corporation), architectural terra cotta (Conkling, Armstrong, O. W. Ketcham, Atlantic Terra Co.), miscellaneous iron work, iron ladders, subway gratings (Irvin Steel Grating), bronze thresholds, steel stairs, metal window guards, rolling steel doors (Keanear Manufacturing Co.), Barrett specification roof, sheet metal work, roof ventilators (Globe, Royal or equal), R. S. skylights, kalamein, tin-clad doors, bronze-covered doors and frame (Norman Seton, Inc., Reliance Fireproof Door Co., Leonard Sheet Works, Inc.), revolving doors (Van Kannel Revolving Door Co.), metal weather strip (Chamberlain Higgin Manufacturing Co., Monarch or equal), safety bolts (John K. Green Corporation), caulking (Arco Sterling, Ev-Air-Tight) mail chute, steel sash, casement windows, metal lath, plaster bond (Toch Brothers or Aquabar), wall finish (Arvon Co.), interior decorating (allowance, \$2,000), marble tile, terrazzo work, cork floors (Armstrong United Cork Co., David E. Kennedy), linoleum (Blabon or equal), oak floors, cabinet work, elevator, electric dumb waiter, cork insulation (Banner Rock Product Co., Mastic Builder Color), integral and membrane waterproofing. Contract awarded Nelson Pedley Construction Co., Corn Exchange Building, Philadelphia, Pa.

Apartment House, Griscom and Oxford pike, Philadelphia. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, steel, 4 stories, 40x100 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, iron work. Contract awarded Rush Brothers, 4682 Darrah street, Philadelphia.

Chimney, East side Broad street, South of Lehigh avenue, Philadelphia, \$5,000. Architect, private plans. Owners, Reading Co., Reading Terminal, Philadelphia. Brick, 155x14 feet. Contract awarded A. Curtodis Chimney Co., 1234 Callowhill street, Philadelphia.

Grandstand, East side Twenty-ninth street, South of Clearfield street, Philadelphia, \$3,500. Architect, private plans. Owners, Alumni of Roman Catholic High School, Broad and Vine streets, Philadelphia. Steel and frame. Contract awarded Montgomery Iron & Steel Co., 2500 East Duncan street.

Storage and Warehouse, Northeast Corner Meadow and Wolf streets, Philadelphia, \$357,500. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owners, The Meadow Co., Packard Building, Philadelphia. Brick,

2 stories, 302x200 feet, steam heat. Contract awarded Superb Realty Co., care of Raymond Goldstein, Water and Wolf streets, Philadelphia.

Residence, Northwest Corner Broad and Cheltenham avenue, Philadelphia, \$14,000. Architect, private plans. Owner, Marie F. Birnbrauer, Broad and Cheltenham avenue, Philadelphia. Brick, 3 stories, 45x35 feet, hot water heat. Contract awarded John F. Birnbrauer, Broad and Cheltenham avenue, Philadelphia.

Residence, 428 Flamingo street, Philadelphia, \$5,600. Architect, private plans. Owner, Gilbert Ramsey, 1510 West Tioga street, Philadelphia. Frame, 2 stories, 26x34 feet, hot water heat. Contract awarded Fred Alldred, Summer avenue, Horsham, Pa.

Store (alt.), Northwest Corner Twentieth and Sansom streets, Philadelphia, \$2,000. Architect, private plans. Owner, John G. Williams, Land Title Building, Philadelphia. Contract awarded Thomas B. Monaghan, 2009 Sansom street, Philadelphia.

Water Cover Tower, 3325 York road, Philadelphia, \$5,000. Owners, Harbison Dairies, on premises. Contract awarded Machold & Riddell, Stephen Girard Building, Philadelphia.

Cooling Tower, Southeast Corner Summerdale and Comly streets, Philadelphia, \$3,000. Owners, American Ice Co., on premises. Contract awarded Machold & Riddell, Stephen Girard Building, Philadelphia.

Machine Shop, East side Ruth street, South Clearfield street, Philadelphia, \$3,000. Architect, private plans. Owners, Progress Machine Co., 3018 Ruth street, Philadelphia. Brick, 2 stories, 23 feet 6 inches x 37 feet, cement floor, slag roof. Contract awarded James J. Clearkin, 1048 Pratt street, Philadelphia.

Bridges (4), Philadelphia. Owners, Pennsylvania Railroad, T. H. Shillman, chief engineer, Broad Street Station, Philadelphia. Railroad bridges: Penrose avenue and Twenty-fifth street; Twenty-sixth and Hartraft streets; Twenty-fifth and Vare streets; Twenty-sixth and Bigler streets. Reinforced concrete and steel. Contract awarded McNichol Paving & Const. Co., 1923 Cherry street.

Elevated Railroad Siding, Twenty-fifth and Tasker streets, Philadelphia. Engineers, Barton & Martin, Lancaster and Wayne avenues, Wayne, Pa. Owner, Thomas P. McGowan, Twenty-fifth and Tasker streets, Philadelphia. Concrete, steel, 40x16 feet. Contract awarded Frank X. Brennan, Twenty-fifth and Tasker streets, Philadelphia.

Residence and Store (add.), 6215 Ogontz avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Joseph Luchs, on premises. Brick, 1 story, 21x25 feet, yellow pine

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floors, slag roof. Contract awarded Weintraub & Son, 1918 Corlies street, Philadelphia.

Stores (6), Northeast corner 49th and Chester avenue, Philadelphia. Architect, Stetler & Deysher, Jefferson Building, Philadelphia. Owners, Blair, Inc., 5225 Chestnut street, Philadelphia. Brick, steel, 1 story and basement, 125x40 feet, sla groof, oak, pine and cement floors, hot water heat, electric light, metal lath, tile work, ornamental iron work, excavation, demolition, wall finish, architectural terra cotta, sprinklers. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia.

Service Station, Northwest corner 62nd and Walnut streets, Philadelphia. Architects, Construction Department, Crew Levick Co., 219 North Broad Street. Owners, Crew Levick Co., Charles E. Foster, Vice President and General Manager, 219 North Broad street, Philadelphia. Brick, hollow tile, stucco, 1 story, 15x12 feet; wing, 7x6 feet, slag roof, lath, bond. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia.

Pennsylvania Construction News

Group of Buildings, Lemoyne, Pa. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owner, C. R. Beckley, Beckley College, 19 South Second street, Harrisburg, Pa. Administration building, boys' dormitory, girls' dormitory. Architects selected.

Consolidated School, Cumru Township, Bucks County, Pa. Architect, H. V. Patterson, Gouglersville, Pa. Owners, Cumru Township School Board, Pierce Schonour, Gouglersville, Pa. Architect selected.

Factory, Reading, Pa. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, Reading Knob Works, Second and Beech streets, Reading, Pa. Steel, brick, concrete, 1 story, 57x77 feet, wood floors, roof ventilators, electric light, steel sash, fire doors. Plans in progress.

Parochial School, Jermyn, Lackawanna County, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, Sacred Heart Roman Catholic Church, Rev. T. M. Jordan, on premises. Stone. Architect selected. Too early for details.

Heating Plant, opposite Court House, Media, Pa. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Mechanical engineers, Stewart A. Jellett Co., 1200 Locust street, Philadelphia. Owners, Delaware

County Commissioners, H. M. Birnie, president, Media, Pa. Plans in progress.

Fraternity House, State College, Pa. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, Delta Sigma Chi Fraternity, State College, Pa. Preliminary plans completed.

Post Office, Washington avenue and Linden street, Scranton, Pa., \$1,175,000. Architect, James A. Wetmore, supervising architect, Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Granite, brick, steel, concrete, 4 stories, concrete floors, steam heat, electric light, 3 elevators. Plans in progress.

Country Club, Dalton, Pa., \$60,000. Architects, C. L. Hillman & Son, 400 Chestnut street, Philadelphia. Owners, Abington Hills Country Club, care of D. R. Reese, Scranton, Pa. Stone, 2 stories. Preliminary plans in progress.

City Hall, Bethlehem, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, City of Bethlehem, Pa. Granite, limestone, steel, 4 stories and basement, 290x70 feet. Preliminary plans in progress.

Residence, Fox Chase, Pa. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, name withheld. Brick, stucco, 2½ stories, 27x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Hosiery Mill, Reading, Pa. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, name withheld. Brick, steel, 1 story, 107x150 feet, slag roof, cement floors, steam heat, electric light, office partitions. Plans in progress.

Residence Operation, Chester, Pa. Architect, Frank C. Watson, Chester, Pa. Owner, name withheld. Brick, concrete block, stucco, 2½ stories, 16x40 feet. Plans in progress. Work contemplated.

Office and Apartment Building, Chester, Pa. Architect, Frank C. Watson, Chester, Pa. Owner, name withheld. Brick, 3 stories, 45x75 feet, slag roof, hardwood floors, electric light, tile work. Preliminary plans in progress.

Store (alts. and add.), Lewistown, Pa. Architects, Witman & Royer, 36 East Market street, York, Pa. Owner, Harris Smith, Market and Dorcas streets, Lewistown, Pa. Brick, steel, 1 story, 30x114 feet, built-up roof, maple floors, oil burner, steam heat, electric light, metal lath, tile, marble, plate glass. Plans in progress.

Factory (alts. and add.), to Office and Printing Plant, York, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, York Printing Co., 10 South Pershing

street, York, Pa. Brick, steel, 1 story, irregular size, built-up roof, wood block floors, general interior alterations, skylights. Plans in progress.

Alms house, York, Pa., \$1,000,000. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owners, York Poor District, Charles Frey, Broad street near Chestnut, York, Pa. Fireproof, 1, 2 and 3 stories, 455x200 feet, slate or tile roof, Johns Manville roof, terrazzo floors, safety treads, roof ventilators, metal window guards, waterproofing and dampproofing, incinerators, wrought iron pipe, brass pipe, ornamental iron, iron stairs, fire doors, steel sash, marble work, metal lath. Plans in progress.

Warehouse, Red Lion, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, Charles A. Rost Tobacco Co., Red Lion, Pa. Brick, concrete, 4 stories and basement, 80x115 feet, asphalt roof, cement, pine and maple floors, hollow tile, freight elevators, roof ventilators, metal window guards, metal weather strip, waterproofing, cast stone (heating reserved), electric light, steel sash and

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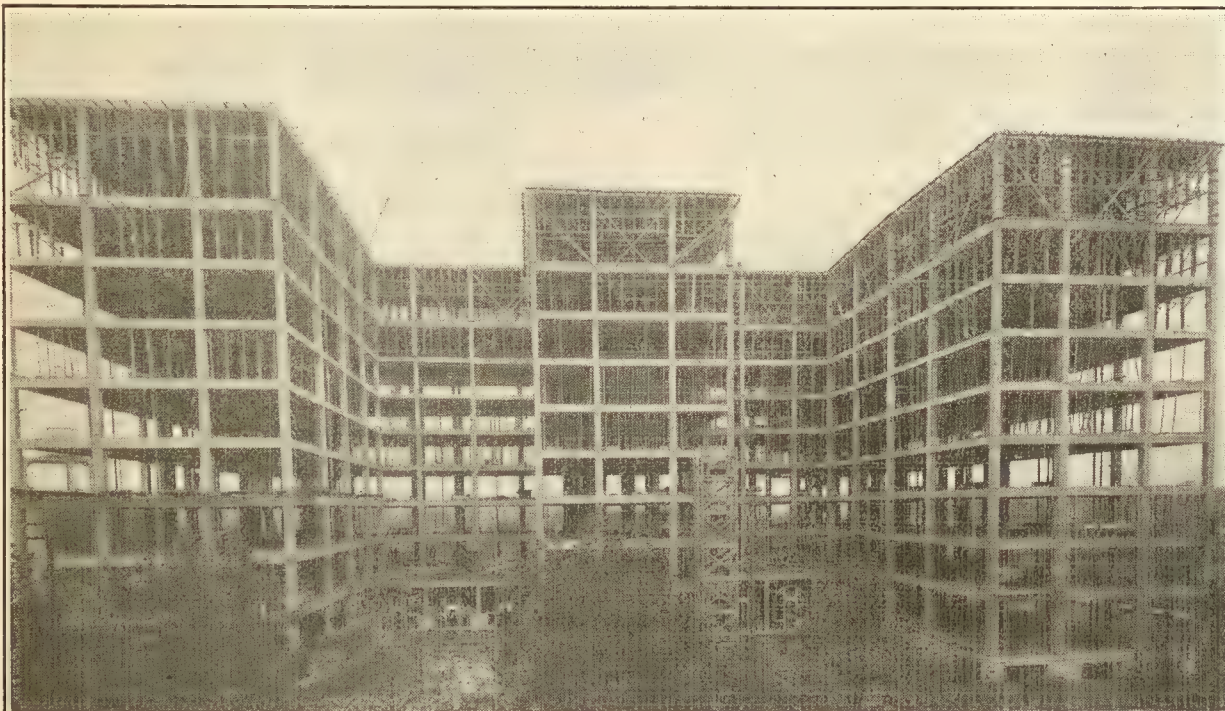
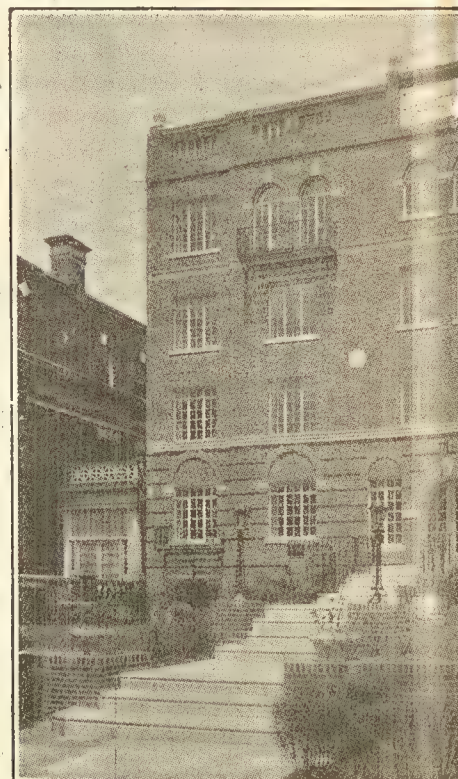
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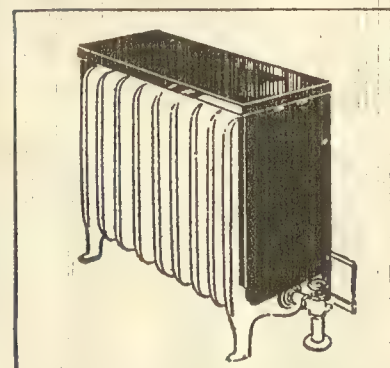
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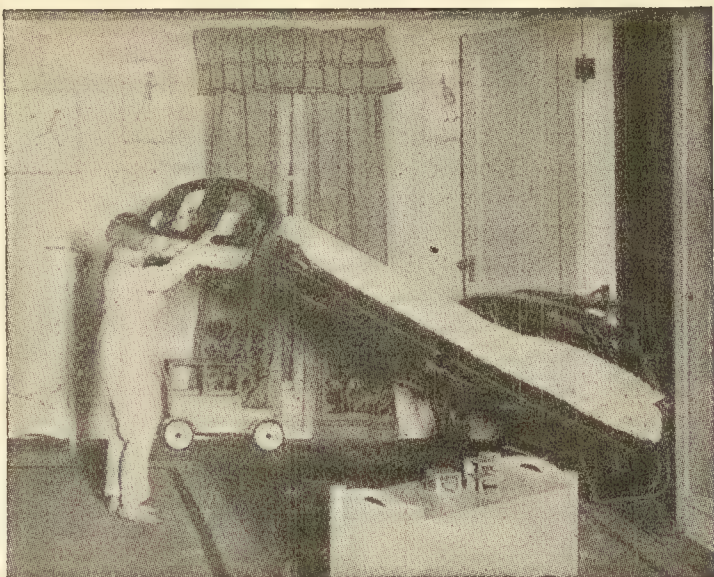
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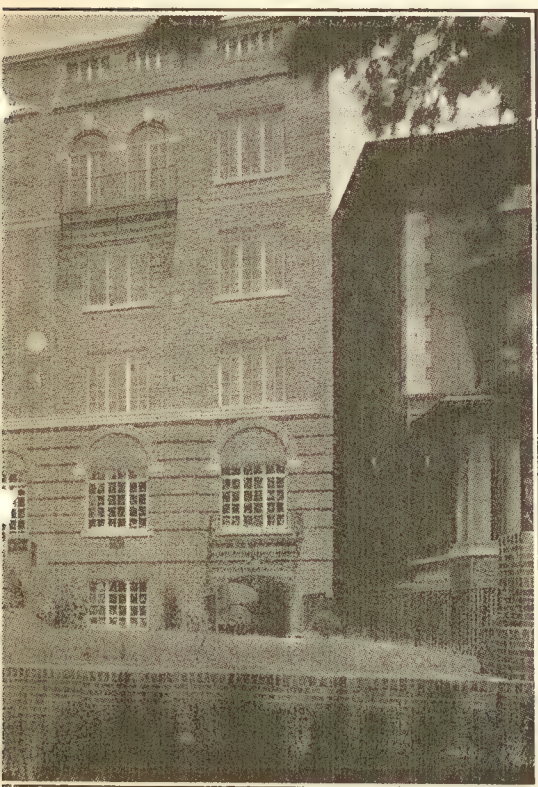
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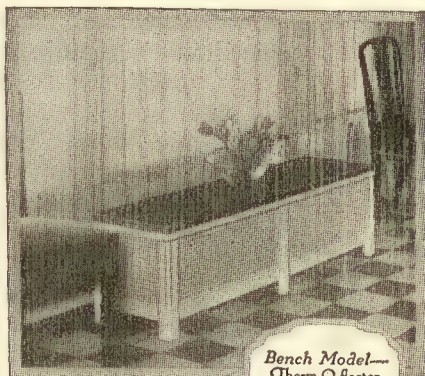
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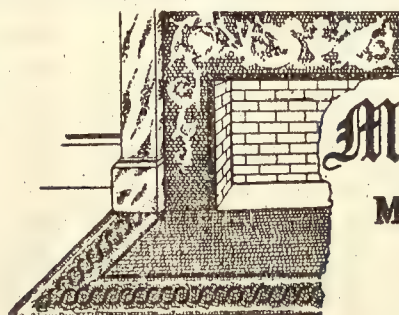
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skylights, fire doors, iron stairs, soundproofing, area gratings, cinder concrete block. Revised plans in progress.

Consolidated School, Kulpsville, Towamencin Township, Pa. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Towamencin Township School Board, H. S. Felty, L. S. Kreibel, secretary, Route 11, Lansdale, Pa. Brick, hollow tile, 1 story, 4 rooms, built-up roof, composition floors, roof ventilators (heating, plumbing and electric separate, steel sash, fire doors, bond. Owners will be ready for bids next week.

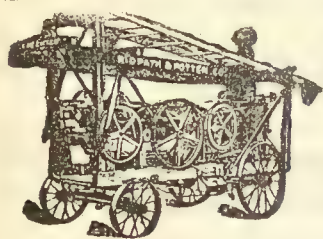
Laundry Building, Bloomsburg, Pa. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owners, Bloomsburg State Teachers' College, Dr. F. B. Haas, Bloomsburg, Pa. Brick, steel, 1 story, 85x36 feet, slag roof, concrete floors, steel sash, electric light, fire doors. Owners will take bids next week.

Teachers' Training School, Bloomsburg, Pa. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owners, Bloomsburg State Teachers' College, Dr. F. B. Haas, Bloomsburg, Pa. Brick, stone, 2 stories, 80x120 feet, slate and composition roof, maple floors, central heat, electric work, metal lath, tile work. Owners will be ready for bids next week.

School (add. and alts.), Paxtang, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Paxtang Borough School Board, D. E. Crosley, Paxtang, Pa.

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Brick, concrete block, steel, second story, 35x107 feet, composition roof, maple and yellow pine floors, roof ventilators, electric light, wardrobes, slate boards. Owners ready for bids.

Residence, Dean street, West Chester, Pa. Architect, William J. Corcoran, West Chester, Pa. Owner, Francis O'Brien, West Chester, Pa. Hollow tile, stucco, 2½ stories, 27x30 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans completed. Owner taking bids.

Residences (2), Hamorton, Pa. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owner, Pierre S. DuPont, Kennett Square, Pa. Stone, 2½ stories, 25x30 feet, 25x20 feet, asbestos roof, hardwood floors, vapor heat, electric light, oil burner. Owner will build.

Office, Sixty-ninth and Rockland avenue, Upper Darby, Pa. Architects, Tunis & Baker, 1600 Arch street, Philadelphia. Owners, Keystone Automobile Club, J. M. Weeks, president; Thomas Cahill, secretary, Shubert Building, Philadelphia. Brick, stone, stucco, 1 story and basement, 30x41 feet, slag roof, cement floors, outside tile, structural steel, plate and leaded glass, painting, mill work, hot water heat, oil burners, electric light, cinder concrete block. Architects taking sub-bids.

Sales and Service Building, Southeast Corner Garrett and Kingston roads, Upper Darby, Pa. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, Edward A. Bertolotti, Upper Darby, Pa. Brick, steel, concrete, 1 story and basement, 65x170 feet, concrete slab roof and floors, steel sash, plate glass. Ready for bids in two weeks.

Store Building (alts. and improvements), Main street, Royersford, Pa. Architect, J. Vincent Poley, 162 Second ave., Royersford, Pa. Owners, Bullocks Sons, Main street, Royersford, Pa. Brick, concrete, 2 stories, 32x64 feet, tin roof, maple floors, metal cornices, plate glass, sewers, wood sash, steel sash, steam heat, oil burner, electric light. Plans in progress. Owners will take bids.

Twin Residences (2), Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, A. H. Wills, 541 Walnut street, Royersford, Pa. Brick, cement block, 2 stories, 29x40 feet, tin roof, yellow pine floors, terra cotta coping, flue linings, Morgan doors, wood sash, tile work, cement block, steam heat, electric light. Plans in progress. Owner will take bids.

Residence and Garage, Penlyn, Pa. Architect, Thomas Wharton, 1713 Sansom street, Philadelphia. Owner, Henry B. Coxe, Jr., Penlyn, Pa. Stone, 2½ stories and basement, 86x40 feet, wing 61x35 feet, shingle roof, bond, brick work, cement work, tile and marble work, excavation, asphalt and membrane waterproofing, flagstone, bluestone, iron work, oak and pine floors, linoleum, metal lath, plastering, hot water heating, radiators (Rome Brass Radiator Corp.), plumbing, brass pipe (Anaconda), electric work. Architect taking bids due February 25th.

Stores (2), West Chester, Pa. Architect, William Corcoran, West Chester, Pa. Owner,

J. S. D. Garrett, West Chester, Pa. Brick, 1 story, slag roof, maple floors. Architect taking bids due March 3rd.

Residence, near Avondale, Pa. Architect, William J. Corcoran, West Chester, Pa. Owner, Norman Pusey, care of architect. Stone, 2½ stories, 27x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due March 3rd.

Residence and Garage, Odgen avenue, West of Walnut lane, Swarthmore, Pa. Architect, J. W. Platt, 334 East Upsal street, Philadelphia. Owner, Dr. W. L. G. Swann, 127 North Nineteenth street, Philadelphia. Stone, 2½ stories and basement, 59x21 feet, wing 22x23 feet, bond, excavation, cement and concrete work, flagstone, concrete blocks, hollow tile, plastering, metal lath, solidon finish, steel and iron work, area gratings, tile and marble work, slate (variegated) roof, oak, pine, cement uoors, asbestos shingle roof, carpentry and mill work, electric work, plumbing, brass pipe (Anaconda), hot water heat, radiators (American Radiator Co.), concealed radiators (Rome Brass Radiator Corporation), boiler (Bryant Heater & Mfg. Co.). Owner taking bids due February 26th.

Residence (alts. and add.), Northwest side Butler pike, one mile Southwest of Stenton avenue, Whitmarsh Valley, Pa. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, Francis Boyer, on premises. Stone, 2 stories, 15x16 feet, demolition, excavation, bond, stone walls, uagstone (Ridgeway), concrete and cement work, iron work, carpentry and mill work, shingle roof, oak, pine floors, linoleum, linotie floors (Livzey), tile and marble work, metal lath, plastering (screens and weather strip allowance \$416), plumbing, sewage disposal plant, septic tanks, brass pipe (Anaconda) (heating, electric, refrigerator, grading reserved). Architects taking bids due February 25th.

Restaurant and Inn (add. and alts.), Shippensburg, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, J. B. Morrison, Shippensburg, Pa. Brick, 3 stories, 27x120 feet, built-up roof, quarry, tile floors, dumb waiters, electric light, steel sash (heating reserved). Architect. taking bids due March 4th.

School, Dallastown, Pa. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Dallastown School Board, W. J. Taylor, secretary, Dallastown, Pa. Brick, 2 stories, 128x120 feet, composition roof, maple floors, safety treads (heating, plumbing and electric separate). Owners taking bids due March 1st.

Church (alts. and add.), Bangor, Pa. Architect, John B. Thomson, 1321 Arch street, Philadelphia. Owners, Salem Evangelical Church, Rev. J. R. Torkin, Bangor, Pa. Stone, 1 story, 45x52 feet, bond, demolition, excavation, reinforced concrete work, waterproofing (Builders' Specialty), floor hardener (Builders' Specialty), stone masonry, cast stone, brick work, structural steel, miscellaneous iron work, black slate roof, metal skylights, composition floors (Philadelphia Mineral Flooring Co. or equal), carpentry and mill work, pine floors, iron grill, plastering, metal lath, painting, glazing, hardware, plumbing, sanitary drainage system, steam heat (add.), radiators (American Radiator Co.), electric work, cinder concrete blocks (Straub), Lignophol (L. Sonneborn Son, Inc.). Architect taking bids due February 25th.

Residence, Garage and Servants' Quarters, Bryn Mawr, Pa. Architects, Paul Cret and T. B. White, 112 South Sixteenth street, Philadelphia. Owner, Victor Mauck, 8 Merion ave-

nue, Merion, Pa. Stone, 2½ stories, 25x200 feet, slate or shingle roof, hardwood and pine floors, electric light, tile, marble, steel sash, landscaping, 4-car garage. Architects taking bids due February 28th before noon.

Spinning Mill, Fifth and Philadelphia & Reading Railroad, Bloomsburg, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Magee Carpet Co., Bloomsburg, Pa. Brick, reinforced concrete, 4 stories and basement, 103x268 feet, excavation, reinforced concrete work, rement work, waterproofing (Master Builders), waterproofing (Western or equal), sheet metal skylights, slag roof, steel sash and frames (Lupton's or equal), kalamein doors (Variety Mfg. Co. or Penn Metal Co.), fire doors, elevator doors, metal partitions (Mills Co., Sarry Metal Products Co.), structural steel and iron work, iron stairs, safety treads (Universal, Feralun or equal), maple floors, caulking (Ev-Air-Tight Co.), painting and glazing. Architects taking bids due February 25th. (Elevators, plumbing, heating, electric reserved. Architects taking bids on elevators due February 25th.

Office, Sixty-ninth and Rockland avenue, Upper Darby, Pa. Architects, Tunis & Baker, 1600 Arch street, Philadelphia. Owners, Keystone Automobile Club, J. M. Weeks, president; Thos. Cahill, secretary, Shubert Building, Philadelphia. Brick, stone, stucco, 1 story and basement, slag roof, 30x41 feet, cement floors, outside tile, structural steel, plate and leaded glass, painting, mill work, hot water heat, oil burners, electric light, cinder concrete block. Architects taking bids due as soon as possible.

Webbing Mill, Sixth and Magee streets, Bloomsburg, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, James Magee Webbing Co., Bloomsburg, Pa. Brick, reinforced concrete, steel, 2 stories and basement, 75x200 feet, excavation, bond, reinforced concrete work, cement floors, floor hardener (Master Builders' or equal), waterproofing (Master Builders' or equal), slag roof, rolled steel sash (Lupton or equal), kalamein doors and frames (Variety Mfg. Co. or Penn Metal Co.), fire doors, elevator doors, metal partitions (Sanymetal Products Co.), rolling steel shutters, structural steel and iron work, iron stairs, safety treads (Feralun or equal), maple floors, caulking (Ev-Air-Tight Co.), waterproofing (Minwax or equal), painting and glazing. Architects taking bids due February 25th.

Church and Parish House, Stonehurst, Pa. Architects, Wilson Eyre McIlvaine, 1003 Spruce street, Philadelphia. Owners, St. Gile's Protestant Episcopal Church, Rev. Walter C. Pugh, Upper Darby, Pa. Brick, stone, 1 and 2 stories, slate roof, hardwood and maple boors, electric light. Plans about completed. Architect will take bids in 3 weeks.

Hospital Building, Powell and Fornance streets, Norristown, Pa. Owners, Montgomery Hospital, A. T. Eastwick, Norristown, Pa. Project and site approved by Board of Directors.

Miscellaneous Work, West Norriton Township, Pa. Owners, Commissioners of West Norriton Township, D. S. Harding, secretary, 14 Orchard lane, Norristown, Pa. Crushed stone, slag asphalt, tar products, patching, prepared surfacing. Owners taking bids due March 1st, 8 P. M.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa. Owners taking bids due February 28th, at 10 A. M. Construction drawings, \$2.50 per set. Cross section drawings, \$5.00.

Cumberland County, A-5750, Newton Town-

ship, 19,321 feet. Bituminous surface treated macadam surface course. Certified check, \$2,000.

Jefferson County, R-59, Sec. 2 Extension, Snyder Township, Brockway Borough, 4,212 feet. One course reinforced concrete. 2,100 feet grading. Certified check, \$1,500.

Lackawanna County, A-4717, Archbald Borough, 6,092 feet. One course reinforced concrete. Certified check, \$1,500.

Lancaster County, A-5824, Providence Township, 7,927 feet. Bituminous surface treated macadam surface course. Certified check, \$1,500.

Lawrence County, A-4918, North Beaver Township, 5,823 feet. One course reinforced concrete. Certified check, \$1,000.

Lehigh County, R-443, Sec. 2, A-5795, Upper Macungie and Weisenburg Township, 10,583 feet. One course reinforced concrete. Certified check, \$2,000.

Luzerne County, R-369, A-4844, 5544, Plymouth Township, 9,241 feet. One course reinforced concrete, 1,100 feet grading and drainage. Certified check, \$2,000.

Mercer County, R-238, Spur B and C, A-5656, Shenango Township, Wheatland Borough, 22,377 feet. One course reinforced concrete, 319 feet grading and drainage. Certified check, \$2,500.

Pike County, A-5782, Delaware Township, 6,698 feet. Bituminous surface treated macadam surface course. Certified check, \$1,500.

Tioga County, R-102, Sec. 6, Shippen Township, 2,275 feet. One course reinforced concrete. Certified check, \$500.

Westmoreland County, R-119, Sec. 5A, Unity Township, 5,275 feet. One course reinforced concrete, 200 feet bituminous surface treated macadam surface course for road approaches. Certified check, \$1,500.

Residence and Garage, Cynwyd, Pa. Owner, P. Beccia, Drexel Park, Pa. Stone, frame, 2½ stories and basement, 30x40 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Residence and Garage, Cynwyd, Pa. Owner, P. Beccia, Drexel Park, Del. Co., Pa. Stone, frame, 2½ stories and basement, 30x40 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, ornamental iron work. Plans in progress.

Residence, Elwyn, Pa. Architect, Harold Edward Williams, Drexel Park, Pa. Owner, James W. Walsh, Upper Darby, Pa. Stone, frame, 2 stories and basement, 25x60 feet, shingle roof, oak and pine floors, hot water heat, electric light. Plans in progress.

Fire House, Cornwells, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Cornwells Fire Co., No. 1, Ralph Simon, Cornwells, Pa. Brick, 2 stories 35x50 feet, built-up and slag roof, concrete and wood floors, overhead doors, hot water heat, electric light. Owners taking bids due March 1st.

Residences and Garages (16), Ardmore, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Frank R. Shriver, Rising Sun road, Ardmore, Pa. Brick, stone, clapboard, 2½ stories, 25x45

feet, shingle roof, hardwood floors, hot water htat, electric light, tile work. Owner taking sub-bids.

Residences and Garages (6), Schuyler road, Springfield, Pa. Architect, private plans. Owner, Isaac W. Weaver, 17 Lownes Lane, Springfield, Pa. Brick, frame, stone, 2½ stories, 28x38 feet, tile baths, hardwood floors, wood shingle roof, hot water heat, electric light. Owner will be ready for sub-bids in a month.

Hosiery Mill, Willow Grove, Pa. Engineers, Wm. P. Cameron Engineering Co., Packard Building, Philadelphia. Owners, Zabel Full Fashion Hosiery Mill, care of engineers. Brick, caststone, steel 1 or 2 stories, 58x150 feet, gypsum slag roof, cement floors, septic tanks, plumbing, steam heat, oil burners, electric light, rolled steel sash. Engineers taking bids due as soon as possible.

Pennsylvania Contracts Awarded

Passenger Station, Franklin street, Reading, Pa. Architect, Clark Dillenback, Twelfth and Market streets. Owners, Reading Railroad Company, Twelfth and Market streets, Philadelphia. Stone, 1 story, 45x140 feet, platform 133 feet long, demolition, concrete roof, excavation, porete roof slabs, ornamental terra cotta (Conkling, Armstrong or equal),

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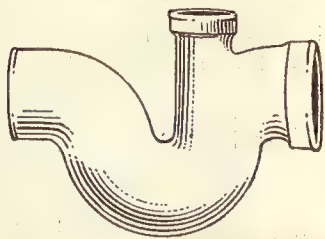
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brick work, hollow tile, cinder block, structural steel, iron work, steel sash, Barrett asphalt roof, dampproofing (Toch Bros.), kalamain doors, linoleum floors, tile and terrazzo work, marble work, plumbing, caulking, bronze work, Webster steam heating, radiators (U. S. Radiator Co.). Contract awarded George A. Fuller Co., Morris Building, Philadelphia.

Residence and Garages (8), Elkins Park, Pa. Architect, private plans. Owner, name withheld. Stone, brick, 2½ stories and basement, 35x25 feet, shingle roof, oak, pine and cement floors, plumbing, hot water heat, electric light, tile work, metal lath, ornamental iron work, cinder concrete block, medicine cabinets. Contract awarded Clarke & Harvey, Packard Building, Philadelphia.

Stores (2), Wesley avenue and Easton road, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Glenside Trust Co., Trustees, Glenside, Pa. Brick, limestone, 1 story, 60x60 feet, slate roof, oak, pine and cement floors, wood floors, metal lath, tile work, rolled steel skylights. Contract awarded Albert Zellfelder, 1324 Walnut street, Philadelphia.

Sales and Service Station, Lancaster avenue and Old Lancaster road, Bryn Mawr, Pa. Architect, private plans. Owners, Mulford & Dilks, 718 Lancaster avenue, Bryn Mawr, Pa. Brick, steel, 1 story, 126x100 feet, bond, excavation, concrete floors, concrete blocks (Ellis or usual), tin-clad doors, Carey Feltex built-up roof, galvanized iron skylights, roof ventilators, metal railings (Penn Metal Co.). Contract awarded F. H. Wilson, Upper Darby, Pa.

Bank Building, Third and High streets, Chester, Pa. Architect, A. Coshland, Eighth and Edgemont avenues, Chester, Pa. Owners, Pennsylvania National Bank, care of architect. Brick, limestone, marble, 1 story, mezzanine and basement, 40x50 feet, steam heat, electric light, metal lath, marble work, cement floors, slag roof, bond, ornamental iron work. Contract awarded William Dickinson, Chester, Pa. Work soon to start.

Garage and Apartment (add. and alts.), George street, York, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, Luther L. Stoppard, Queen and Springdale streets, York, Pa. Brick, cast stone trim, 1 story, 45x45 feet, slag roof, concrete and hardwood floors (plumbing reserved), electric light. Contract awarded L. Klunk, 205 South George street, York, Pa.

Telephone Building (add.), York, Pa., \$50,000. Architect, A. J. Dempwolf, Cassatt Building, York, Pa. Owners, York Telephone Co., 31 South Beaver street, York, Pa. Fireproof, 1 and 2 stories, 53x104 feet, Barrett roof, concrete floors, hollow tile, roof ventilators, electric work, metal lath, fire doors, steel sash. Contract awarded G. W. Gilbert & Sons, Inc., Mason and Park avenues, York, Pa.

Store, Apartments and Garages, 108 Forrest ave., Narberth, Pa. Architect, private plans. Owner, E. H. Davis, Narberth, Pa. Owner, E. H. Davis, Narberth, Pa. Brick, con-

crete block, 2 stories and basement, 42x34 feet, garage 18x50 feet, slag roof, cement floors, electric light, bond, ornamental iron work. Contract awarded George Woodrow, Narberth, Pa.

Residence, Womelsdorf, Pa. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owner, Jacob H. Mays, Womelsdorf, Pa. Stone, 2½ stories, 61x31 feet, shingle roof, maple floors, tile work (heating, plumbing and electric separate). Contract awarded Adam Spatz, Wernersville, Pa.

Store Building, Garrett road, Upper Darby, Pa. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Springfield Real Estate Co., 610 Commercial Trust Building, Philadelphia. Limestone, brick, 2 stories and basement, 75x137 feet, steel frame, Polycrone terra cotta, slag roof, maple floors, hot water heat, electric light, tile work, maple floors, hot water heat, electric light, tile work, metal lath, marble (exterior), steel sash, bronze work. Contract awarded J. L. Fawley, 2121 Walnut street, Philadelphia.

Hanger, near Paoli, Pa. Architect, private plans. Owners, Philadelphia Main Line Airport Co., Inc., Wilford Building, Philadelphia. Brick, steel, 28 feet high, 123x101 feet, slag roof, cement floors, carpentry and mill work. Contract awarded Thomas L. Latta, 1926 Sansom street, Philadelphia.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Huntingdon County, R-56, Sec. R-1, Warriors' Mark Township. One course reinforced concrete, grading and drainage. Contract awarded Atlas Paving & Drainage Co., Atlas, Pa., \$140,524.67.

New Jersey Construction News

High School, Glassboro, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, Dr. M. J. Luffnary, Glassboro, N. J. Low bidders: J. D. Pasquale, Vineland, N. J., \$232,785; P. Lange, Audobon, N. J., \$256,825; Plumbing, A. H. Knoettner & Son, Audubon, N. J., \$16,797; Heating, American Heating & Ventilating Co., Schaff Building, \$38,867; Electric, Walter L. Lyle, 66 Boulevard, Brookline, Pa., \$10,843.

Residence and Garage, Trenton, N. J., \$150,000. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, James R. Barber, 912 West State street, Trenton, N. J. Princeton limestone, 2½ stories, 50x100 feet, slate roof, hardwood and linoleum floors, hollow tile, waterproofing and dampproofing, hot water heat, oil burner, electric light, metal lath, tile, marble, brass pipe. Plans in progress.

Residence, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, Joseph Lavine, care of architect. Brick, 2½ stories, 29x36 feet, slate roof, hardwood floors, hot water heat,

electric light, oil burners, tile work, wood casements. Plans in progress.

Store, 115 East State street, Trenton, N. J. Architect, H. G. Aitken, American Mechanics' Building, Trenton, N. J. Owners, Metropolitan Chain Stores, care of architect. Brick, steel, limestone, 2 stories, 40x150 feet, slag roof, maple floors (heating, plumbing and electric separate), metal lath, tile, steel sash, fire doors, iron stairs, roof ventilators. Plans in progress.

Stores and Apartments (6), Haddon Heights, N. J. Architect, D. W. Hall, 130 South Fifteenth street, Philadelphia. Owner, name withheld. Brick, concrete block, 2 stories, 18x70 feet, tile and slate roof, hardwood and pine floors, electric light, steel sash. Plans in progress. Will be ready for sub-bids about March 1st.

Store (add.), North Broad street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Home Furniture Co., 137 North Broad street, Trenton, N. J. Brick, terra cotta, steel, 2 stories, 35x110 feet, maple floors, slag roof, elevators, roof ventilators, steel sash, tile, marble, heating extension, electric light. Architect taking bids due March 1st.

Apartment House, Collingswood, N. J. Architect, Frank W. Hall, 130 South Fifteenth street, Philadelphia. Owner, Herman Odlen, 1455 Broadway, Camden, N. J. Brick, cinder block, stucco, 2 stories, 30x120 feet. Architect taking sub-bids.

Mausoleum, Laurel Park, Atlantic City, N. J. Architect, Oscar Schmidt, Chelsea Bank Building, Atlantic City, N. J. Owners, Laurel Park Memorial Cemetery, Laurel Park, Atlantic City, N. J., care of Paul R. Neuman, Victory Building, Philadelphia. 400 crypts of marble. Owners will sub-let.

Hotel (add.), South Arkansas avenue, Atlantic City, N. J. Architect, A. L. Brooks, Humphrey Building, Atlantic City, N. J. Owner, name withheld. Brick, steel, 3 stories, 50x16 feet, slag roof, hardwood floors, metal weather strip, copper work, metal skylights, tile, marble, metal lath, electric light. Architect taking bids.

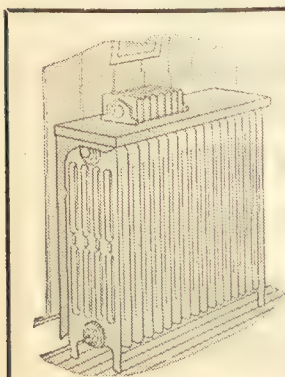
Residences and Garages (2), 1332-34 Decatur street, Camden, N. J., \$5,200. Architect, private plans. Owner, Anthony F. Thiel, Maple Shade, N. J. Brick, block, 2 stories, 15x38 feet, garages 10x18 feet, slag roof, hot water heat, electric light. Permit issued.

Road Work, Route 25 (Route 1 Extension), Section 15, Contract 21, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Construction of overpass bridge at junction with Routes 21 and 29, at or near Peddie Ditch, Newark, Essex County, N. J. Timber piling, macadam pavement, granite curb, concrete, granite block pavement, structural steel. Certified check, 10 per cent. Deposit, \$10. Owners taking bids due March 4th at noon.

Bridge, Route 29, Sec. 2A, across Stuyvesant avenue, Union County, New Jersey. Owners, State Highway Department, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Low bidders: Mundy Paving & Construction Co., 226 South War-nock street, Philadelphia, \$93,855.81.

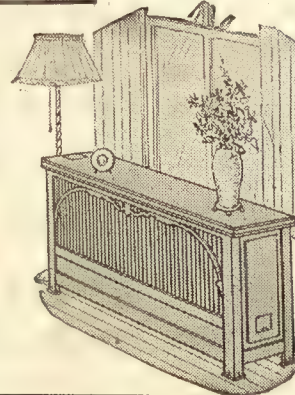
New Jersey Contracts Awarded

Office Addition, 503 Cooper street, Camden, N. J., \$5,000. Architect, Henry Sherman, Moorestown, N. J. Owner, Lewis Paret, 503 Cooper street, Camden, N. J. Brick, 2 stories, 12x30 feet, hot water heat, slag roof.



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Contract awarded Collins B. Rogers, Drexel Building, Philadelphia.

Store Addition, 225 Federal street, Camden, N. J., \$3,000. Architect, private plans. Owners, Reliance Electric Co., 225 Federal street, Camden, N. J. Block, 3 stories, 26x29 feet 7 inches, slag roof. Contract awarded Jos. D. Hill, 122 Woodlawn avenue, Collingswood, N. J.

High School, South Clinton and Park avenues, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Hamilton Township School Board, W. A. Robison, secretary, Greenwood School, Trenton, N. J. Brick, steel, 2 stories, 282x195 feet, slag and gypsum roof, maple, concrete and linoleum floors, metal window guards, east stone, cut stone, plaster, bronze, iron stairs, bond, septic tank, metal toilet partitions, reinforced concrete vault, tile, marble, metal lath. Contract awarded J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J., \$418,809. Plumbing, Philip S. Slack, 211 Perry street, Trenton, N. J., \$21,070. Heating, Philip S. Slack, 211 Perry street, Trenton, N. J., \$47,670. Electric, Mercer Electric Co., 338 South Broad street, Trenton, N. J., \$25,600.

Store Building, 212-14-16 Madison avenue, Passaic, N. J. Architects, Nimmons, Carr-Wright, Chicago, Ill. Owner, E. G. Cole, Passaic, N. J. Lessees, Sears-Roebuck Co., Chicago, Ill. Brick, cut stone, 2 stories and basement, 60x125 feet, semi-fireproof, slag and composition floors, concrete floors, steam heat, electric light, copper bulks. Contract awarded Union Building Co., Newark, N. J.

Storage Building, 80 Hamilton avenue, Trenton, N. J., \$20,000. Architect, private plans. Owners, American Steel & Wire Co., Hamilton avenue, Trenton, N. J. Concrete, steel, 1 story, 60x230 feet, steel roof, steel sash. Contract awarded American Bridge Co., Warren street, Trenton, N. J.

Store (alts.), 147 South Broad street, Trenton, N. J., \$2,000. Architect, private plans. Owner, Emile L. Meyer, on premises. New front, 16x75 feet, slag roof, general alterations. Contract awarded LeRoy Loabe, Sanhian Drive, Trenton, N. J.

Residence, 1251 South Merrimac road, Camden, N. J., \$3,000. Architect, private plans. Owner, Vincenzo Imbesi, 1271 South Merrimac road, Camden, N. J. Brick and block, 2 stories, 16x37 feet, slag roof, hot air heat. Contract awarded Carmelo Olivieri, 100 East Holly avenue, Oaklyn, N. J.

Miscellaneous Construction News

Paper Mill, Matawask, Me. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Fraser Company, Matawask, Me. General reconstruction. Plans in progress.

Residence (alts. and add.), 2310 West Seventeenth street, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, E. G. Ackart, on premises. Brick, second story add., 20x14 feet, built-up roof, hardwood floors, heating extension, electric work, tile work. Plans in progress.

Residence (add. and alts.), 2003 Parkway, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, G. R. Kaiser, on premises. Brick or tile and stucco, 1 story, built-up roof, electric light, tile work, flagstone. Plans in progress.

Hotel, Dover, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, care of L. Allee, attorney, The Green, Dover, Del. Brick, steel, frame, 3 sto-

ries and basement, 128x40 feet, slate and slag roof, tile and oak floors (heating, plumbing and electric separate), tile and marble, iron stairs. Architects taking bids due February 23rd.

Miscellaneous Contracts Awarded

Residence, Wawasett Park, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, J. F. Otwell, care of architects. Tile, stucco, frame, 2½ stories, 32x50 feet, slate roof, hardwood floors, oil burner, electric light, tile work. Contract awarded A. L. Lauritsen, DuPont Building, Wilmington, Del.

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An Address by CHARLES F. ABBOTT,
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Institute of Steel Construc-
tion, Inc.*

Co-operation is hastening and intensifying the newer competition in industry concerning which we have heard much since 1925, the year when the Supreme Court of the United States announced its notable opinions on trade associations and trade association work. It is this newer competition, the competition between industries, which is today making us conscious of the newer forces at work to make business prosperous.

It is essential that we shall define clearly these newer forces if we are to make profitable use of them. We must recognize them for what they are and learn how to use them for the betterment of business. And I venture to say that no greater force presents itself than *obsolescence*.

By obsolescence I mean the scrapping of obsolete goods and machinery; teaching people how to know when something is obsolete, passe, outmoded or a back number, in style, color, form or efficiency; how to courageously change to the new,

and to get millions more people to do so, and to see that they get the income with which to do it.

Advertising men have always understood this principle better than most people. They have labored long and hard to make the manufacturers understand and realize that they were too frequently holding fast to obsolete ideas of selling and advertising.

The steps leading to the greater use of these tools have been gradual and logical. With industries competing against each other we saw profits declining. Then we realized the need of creative and co-operative selling, and that if we wanted more business at a profit we would have to *speed up demand; intensify consumption*. We experimented with instalment selling, and today it serves a purpose. It has definite limitations. It makes it dangerously easy to pyramid the credit situation.

There are ten or twenty million people who earn a fair surplus, over and above their ordinary needs. They are the real keys to progress. They have money to spend, whereas the rest of the population still lives too close to necessities and the ordinary comforts of life. These ten or twenty million people practically run the country; they are the people who perform the more important work. They read the magazines and newspapers, are intelligent, alert, and, have formed the habit of progress.

We began to realize that if we could interest, fascinate and convince this public that our inventors, scientists, artists, designers, engineers, manufacturers and builders are alert and progressive, that they are producing new and improved merchandise much faster than the old wears out,—then we could start a new era of progress. All we wanted was the public acceptance of the change. Only in this way can we continue to stimulate these creators, and continue to climb new

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heights of prosperity to be shared by everybody.

We have the workers, great factories, sales and advertising organizations. What is their purpose if they fail to sell what their brains produce? Why should we educate and train men to create new things if people merely reply that they are satisfied with what they now have? The real job of research and the real hope of progress is to *make people dissatisfied with what they have*. Advertising men have been hammering this idea for years. But it is surprising how many people still hesitate to accept it.

It is human to resist change, but the greatest glory that we can ever possess is that we do change and have thrived upon progress. As Hoover has put it, we want nothing "frozen" in America. Let an inventor produce a good thing and we adopt it instantly. We have no false beliefs about old things.

This trend is even noticeable in Europe. Not long ago they started rebuilding the famous Bank of England, which, for hundreds of years, has occupied a building so unmodern that Englishmen humorously referred to it as "The Aquarium," or the "Old Lady of Threadneedle Street in hoopskirts."

Holding fast to ideas until they wear out is not the American tradition, not the American path to progress. What did Carnegie do? He seized from England the world leadership in steel production, which we have since retained, by breaking away from the old methods. Carnegie made the steel industry by his tremendous application of obsolescence. He more than once erected a new and expensive mill only to tear it down again to be able to manufacture steel by a new and better process. This is one of the great means of advancing business—to move so fast that competitors are left behind and made obsolete.

This is just what American industry has done to all the rest of the world. Our industrial supremacy has to a large extent depended upon our ability to inspire changes. In the future our greater prosperity will depend upon our success to create millions of buyers who will practice obsolescence in their purchasing.

Nothing is more clearly demonstrated than the fact that the prosperity of the masses, as well as the classes, depends upon our success in inducing the people who can afford it to buy new and improved goods.

Some people seem to have a hard time realizing that we are no longer an agricultural nation. They seem to forget that we are living in an industrial age, and that the factory is the chief cornerstone of our prosperity.

It is essential that we maintain high standards of living, if we wish to keep our factories active. When a research

man, an engineer, a designer, and a manufacturer combine their brains and produce something new, striking, colorful, more efficient, and labor-saving—shall we turn indifferently and say that the old is good enough, and keep a grip on our pocketbooks? Not if we realize that we live in an industrial age. Our pocketbooks won't stay well-filled very long if we pursue such a policy.

Success depends upon the readiness of the public to buy new things! We must spread more widely by high wages and greater efficiency, and thereby increase the number of people who are ready to buy new things before the old wear out.

The obsolescence policy always creates more surplus earnings for more people. Manufacturers lower their prices and consumers release second-hand goods for other users who could not afford to buy them at the original prices. By this process we have at last a prosperous circle.

We once had the sad spectacle of declining production, declining consumption, therefore declining wages, and so on, in a "vicious circle." This is what caused panics in days gone by. Today, by the speeding up of obsolescence we have more production, more consumption, therefore higher wages; and the circle becomes wider all the time instead of narrower.

If this spirit of progressive obsolescence becomes generally accepted, a great many of our most difficult problems will be solved.

Some may argue that obsolescence means waste. Certainly it means waste! Whenever you tear down an old building; discard last year's suit of clothes, or old equipment, it means waste. There is some service left. But we must look at the question of waste intelligently.

What would happen if women decided that it was wasteful to buy new clothes simply because the old ones could still be worn. Such a policy if continued would nearly ruin business. Who cares if women's dresses are not worn until they are rags? Or you might put it this way: who would care about the women if they dressed that way?

The principle is exactly the same wherever you turn. Progress and satisfaction necessarily involve waste, but only in order to achieve the results which more than offset the waste.

The woman who throws out her old kitchen enamelware, and substitutes for it the new colored utensils, is wasting something, but she is gaining far more, and so is industry and prosperity advancing. The man who casts aside his wooden filing cases and replaces them with steel is wasting, I grant you again; but he gains more than he wastes. The family that tears down the old frame house and builds a modern home is wasting, some may say, but what is a lot of old used lumber and junk as compared to the joy, health and

satisfaction which this family receives from the new home?

As Americans we have developed the principle of *creative spending*. It is the same with waste. We need to do more *creative wasting*, in order to promote greater progress. Nothing is more important than this. We should keep our eyes on the *gain* side, not on the *waste* side of obsolescence.

The struggle in all history has been to induce people to scrap old ideas without believing that it was wasteful to do so. The world has suffered far more in retaining the old moss-backed ideas and goods than by adopting the new ones.

The most important undertaking in business today is to convert more men to understand and use obsolescence, to scrap old machinery, old methods and ideas. We must have courage to face the problem of waste as related to progress, and to solve it intelligently.

We are becoming *technically expert in avoiding waste*. Thanks to President-elect Hoover we do not make so many sizes and models and we are experts at reclaiming old iron, steel, and rubber. There are some articles that avoid any waste in obsolescence. The automobile usually passes through two or three hands before it is scrapped. Anything made of steel is peculiarly adapted to an age of change or rapid obsolescence.

In steel construction for buildings a remarkably low waste is necessary. The steel of old Madison Square Garden after all of its 30 years of service, was preserved and some of it was used to construct a large stadium.

"Trading in" is a method in use for many other articles. A California department store has added a "trade-in exchange" for all varieties of second-hand household goods. We must not forget that the used car, radio or vacuum cleaner assists somebody to obtain a higher standard of living.

Nothing could be more absurd in a live industrial age than for everybody to retain the old *utility era* when he wore everything out. I have referred to Carnegie and how he and other masters of American industry made this country great by refusing to use old machinery and plants. Their policies are now an accepted industrial doctrine, and the Government is now promoting a survey of obsolescent factory equipment.

It is generally conceded that 45% of our factory equipment is obsolete. This significant fact is interesting,—the number of corporations in the United States which showed a deficit instead of a profit in 1926, according to the latest corporation tax returns, is also *exactly* 45%. You can put two and two together. The factories which are throwing out old things and putting in the new modern equipment

are the factories which are making the profit.

There is one industry which consists of 28 manufacturers. Only one company is a consistent moneymaker, and it produces goods at 25% under competitor's costs, because of its modern machines. It uses 94 factory employees per million dollars worth of output, whereas all of its competitors use at least 140 men for the same volume. Do we need any more convincing argument?

What is true of the factory is true in principle of us all as consumers. We are more prosperous when retailers, professional men, and consumers—even the housewife in the kitchen—diligently practices obsolescence, and buy new and modern goods as liberally as their income allows, and patronize the work of our creators of goods and services. After all, who does it mean but yourself?

We invite trouble when we are imbued with the idea that we alone can beat the game, taking but never giving, selling but never buying.

We have made a fine beginning by practicing obsolescence in the factory. But now we must go further; we must increase the number of consumers who practice it, and in doing so, we increase and spread wealth. Look what the automobile industry has done with this obsolescence principle! There is not another article costing as much as an automobile which has ever been sold as universally. We now *actually* have an automobile for every family in the United States, whereas vacuum cleaners, washing machines, radio, etc., are sold only one for every three to six families. This was accomplished by rapid obsolescence, of course. There are now half a million people, or more, who buy a new model every year and trade in their old car. This is absolutely revolutionary and unheard of as a buying habit.

These purchasers know what they want. There has been so much improvement and new value offered each year by the manufacturers that the new model is decidedly worth buying. And there you have the whole thing in a nutshell.

Not even Henry Ford could fight obsolescence—he had to give the people the new designs they wanted, something more than cheap travel mileage, which he started with. "You can have any color you want so long as it is black," Ford used to say. But you ought to see the colors he is offering now!

The American woman is largely responsible for this. Walter Chrysler won his magic success by designing his easy steering models, strategically intended to make driving simpler for women. Thus he obtained an advantage over other automobiles and made them obsolete. It was the American woman who demanded the

self-starter, the closed car, the luxurious upholstery, the color and comforts that made the Ford and other cars obsolete. Woman rules the merchandising world today, and few men are hardy enough to buy even a dog or an automobile or a suit of clothes without bringing their wives along. Style and modernness are woman's bywords. Catch a woman wearing things for utility's sake alone! It is the American woman who has made advertising what it is today, and she is satisfied. It is the American woman who is the quickest to respond to advertising; the American woman who most appreciates the new and the beautiful, and the American woman who practices obsolescence. She is more progressive than the American man, because she has greater fearlessness, and is less easily satisfied.

She has taught us that if we are to have prosperity we must *inject beauty into mass production*, and remake our tin-lizzy world into an artistic world; a world of color and style and convenience, comfort, even luxury. Up to ten years ago we were all, except the very rich, busy trying to make enough money to buy the plain unadorned *utilities* that we wanted. We wanted an automobile—just an automobile that would take us where we wanted to go. We wanted this, that, and other things—just the usefulness of it; we were satisfied merely if it worked.

Think what this means. It is a silent revolution, a great cultural movement that every educated person has dreamed about and longed for. It is a day when even the servant girl in the kitchen will thrill to the beauty of color—and which she really does today; a day when the things we turn out of our factories begin to have the beauty that things had in the days of handcraft; when the buildings and bridges we put up are no longer eyesores, but wonderful combinations of service, economy and beauty.

Today our American architects, steel construction engineers and builders have accomplished what the whole world unanimously admits is the greatest American artistic achievement of the century—the American skyscraper. This is not my opinion, but the worldwide verdict of those qualified to know. It is the most outstanding of all the examples of obsolescence, for the steel skyscraper not only made all other large buildings obsolete, but is turning obsolescence into economy instead of a waste.

Obsolescence is what obsolescence does, and it may be waste when mere whim and caprice dictate change. In New York City today they are tearing down some skyscrapers that were the last word only a few years ago; the *Pictorial Review* Building, for instance, which was built of

the finest fireproof steel construction at a cost of two millions in 1919. A building three times as high is going on the site which has become too valuable for such a moderate size building, without up-to-date arrangement and design.

The steel skyscraper, like the good automobile, has a high salvage value. The steel in the Savoy Hotel recently torn down in New York has been used in a hotel in Cuba. No other form of building construction permits such economy, in our rapidly changing times.

It is not the steel that becomes obsolete, but the design of the interior and exterior equipment, due to increased demand for service in buildings. The size of the building may also become obsolete because of the increased land valuation, calling for greater income. Steel is King today, and we properly call this the Steel Age, because steel is the most flexible material possible for an age of rapid obsolescence.

We are conscious today of design and artistry even in bridges, and many cities and towns want to remove some of the horrors that were erected in days gone by. A bridge can be a beautiful civic improvement. If built of steel it is easy to replace with a steel bridge of new and beautiful design, one which will, in turn, be easy to displace if we rise to still greater artistic levels. Obsolete steel bridges may be salvaged, sold and re-erected.

We must see clearly *the industrial meaning of this new art consciousness*. It is revolutionary and remarkable; the greatest prosperity producer that we have on our horizon. It forces obsolescence. Who wants the horsehair sofa today? Who wants the gingerbread house they built in the 1870's? Who wants wooden bridges, wooden cars, wooden office files, buggies, or bustles? Yet hundreds of millions of dollars worth of such old things still exist and are being used. It is a drag on culture, a ball and chain on profits, on wages and employment, and an obstacle to personal efficiency and satisfaction.

We must make people want to change for new and modern goods. The more we make people alert and beauty-conscious, the less are they going to be satisfied with this old junk and the faster the wheels of industry will hum.

Advertising men are the prophets and the educators of the new idea and the new attitude. They understand the public and the public depends upon them. They are leading the people to greater wealth and prosperity by the use of these new tools. Our greater prosperity rests with us if we will only consent to modernize.

We could keep every wheel turning for ten years to come, simply to replace the obsolete factory equipment, and without

encouraging over-production. The principal difficulty will never be over-production. The trouble is *under-consumption*.

We have been *production-minded* long enough; we must now become *consumption-minded*. It is absurd to say that we do not want an electric refrigerator or a motor boat or a beautiful home. We do, and we know we do. What about the 93 million people who still earn barely enough to maintain health and decency, without surplus for comforts and luxury? We are inclined to disregard the facts, and conveniently forget that in spite of the 20 million people with some surplus, there are nearly five times that number of people with scarcely any surplus above a common decent living. Many of them own automobiles, but they use them for economic production more than for pleasure. We must expand their wants and their capacity to pay for new goods.

The old-time economist and business man failed to consider any such possibilities. The modern employer takes the responsibility for unemployment conditions. We must go further, as some have already, and assume that we must take on the responsibility of providing a larger income for these people, and for selfish business reasons, in order to increase consumption.

We must make the present standard of living obsolete. We want people to build modern homes, with up-to-date kitchen equipment and artistic furniture. We are weary of seeing our factories working at half their capacity while three-quarters of the people need and would like to buy the goods these factories are so well equipped to produce.

We scorn the fact that 75% of all our business buildings are obsolete, 66% of our homes; while 75% of our home furnishings, 50% of our office furniture and equipment and 45% of our industrial equipment is also obsolete. We know that the salvation of industry, which has a capacity for producing 80% to 100% more goods than is now consumed, is to foster still more the principle of *progressive obsolescence*; that is buying for efficiency and style *rather than for the last ounce of use*.

We know that *if we are to keep large-scale production, there must be large-scale consumption*. We must fully utilize our modern factories, or *slow them down or shut them down*. A way to keep going is to foster the spirit of style, color and change in our purchases and thereby encourage the ever-changing whims and fancies of a fickle public.

The new modernistic art trend, which is a basic style change, affecting all industries, is an illustration of this new spirit. The public are always ready to express their artistic ideas and needs, and to discard the old.

Every time the consumer approves something new it means that a factory is busy, and we have high wages and full employment.

We must teach more people the pace of modern life. A quarter of our population is living in the twentieth century, but half of them are still living in the nineteenth century.

There is no point in perfecting new products *unless they are widely used*; unless the old are either thrown away or traded in to be passed on to a lower level of consumers.

Those who constitute the ten or twenty million consumers who have a surplus are the real progressive leaders. We no longer buy a house to live in until we die; a refrigerator to keep until it falls apart, an automobile until it refuses to go, or a radio that brings in but one or two stations. We want stylists in stores and factories, artists and designers in shops and industry to produce the new creations, not for a few people but for the greatest number.

We must not concern ourselves about waste in an era of scientific progress. The more scientific, the less waste, and the more we appreciate the artistic, the sooner we realize that all old must give way to the new. The net result will produce busy factories, high wages, more advertising, and a constantly increasing number of satisfied consumers.

We should visualize our factories hard at work remodeling our merchandise; using advertising to make the people of Bean Center, Texas; Black Bottom, Florida, and Snake Hole, Idaho, just as proud of up-to-date clothes, just as sensitive to the fine things of life, good houses and artistic furnishings as the people of New York or San Francisco.

When that day comes, and I believe it will in my time, the volume of consumer goods will be positively stupendous, and so will the volume of income for us all.

There is only one sure road to that great practical achievement, and that is the speeding up of progressive obsolescence.

We are a restless people. We do not live contentedly with out-of-date things; we refuse to allow a few of the people to enjoy the benefits of art and science. We will be restless until the humblest workman in America has a surplus that makes him capable of buying our mass production.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship, it is going to miss by just that much the pulling power it ought to have.

IT IS VITALLY NECESSARY THAT AIR TO BE BREATHED CONTAINS THE PROPER AMOUNT OF MOISTURE

The introduction of the proper humidity into the air will go a long way towards heading off FLU, GRIPPE and COLDS. This is the opinion of Dr. Bundeson, head of Chicago's Health Department, as well as many other noted health authorities.

These men urge the necessity of evaporating at least one-half gallon of water daily per average room during the heating period.

Therm-O-flectors, aside from expensive mechanical equipment, are perhaps the most efficient humidifiers available. The reason, of course, is that Therm-O-flectors are made, sold and installed by engineers who have had experience with all types of humidifier equipment and know the fundamentals of air conditioning.

The J. D. Gerken Co. is the largest manufacturer of radiator furniture in America, and the oldest in Philadelphia.

Therm-O-flectors are guaranteed to keep walls and hangings free from radiator dirt. They are attractive furniture (made of steel) and they do not sacrifice any of the heating efficiency of the radiator.

Costs are reasonable. Estimates free.

Without charge or obligation, the J. D. Gerken Co. will furnish an expert to make a hygrometer test of the air conditions in homes.

Therm-O-flectors have been approved and installed by many institutions—notably, Mitten Building, Methodist Episcopal Hospital, Bell Telephone Co., Horn & Hardart Co. Over 10,000 are in use in the Philadelphia district.

BRASS PIPE IN BATHROOM WILL PREVENT TROUBLE

How many times should a bathroom be "plumbered?" It should be "plumbered" once more if it is an old bathroom of the tin-tub, iron-pipe era. Call in your plumber and have him rip out the old, insanitary fixtures and the rusting iron or steel pipe and put in modern fixtures connected with good brass pipe that can't rust or corrode.

If you are building a new house it should be "plumbered" just once. Put in brass pipe to begin with.

You can't afford to run any risk of your water pipes rusting out or filling up when they are concealed behind expensive tiled or plastered walls or run under hardwood floors, as they are in modern houses. Brass pipe will last as long as the house stands and you'll always have a full flow of clean, sparkling water.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS
Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER
Blue Print Shop, 1520 Sansom St., Phila.

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.

Well, J. H., Co., 1315 Cherry St., Phila.
BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.

John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.

The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard Sts., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

S. Libman, 629 College Ave., Pittsburgh, Pa.
Malia, Thos. J., 226-32 W. Mentor St., Phila.

Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.

New Jersey Cast Stone Co., Vineland, N. J.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.

The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R.,

Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.

Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.

Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Well, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

FIREPROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING-COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

GUARDS (Machine and Engine)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.

Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

Whartenby, Harry A., 1823 Brandywine St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Well, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th and Linden Sts., Camden, N. J.

LUMBER

Ketcham, Howard, 3rd and Girard Ave., Phila.

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

MARBLE

Frank W. Butterworth, 1518 Walnut St., Phila.

MARBLE AND MOSAIC

Belfi Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

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D'Lauro, John, 7732 Ardleigh St., Phila.

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Frank W. Butterworth, 1518 Walnut St., Phila.

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Pearce Fireproof Co., 1911 N. 2nd St., Phila.

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MILLWORK

Shaw, James, & Son Co.,
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Ketcham, O. W., 121 N. 18th St., Phila.

PHOTOSTATS

Weber, F., Co., 125 S. 12th St., Phila.

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Foundation & Construction Co., 1320 Race St., Phila.

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Keen Bros., Merchantville, N. J.

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DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

PORCH ENCLOSURES

Malia, Thos. J., 226-32 W. Mentor St., Phila.

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Philadelphia Gas Range Co., 1026 Arch St., Phila.

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American Metal Weatherstrip Co., 2115 Diamond St.

Malia, Thos. J., 226-32 W. Mentor St., Phila.

ROOFING

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Clausen, Wm. H., 27th and Diamond Sts., Phila.

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SHEETROCK (Wall Board)

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Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

SHELVING (Steel)

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SOUNDINGS

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 9
February 27, 1929

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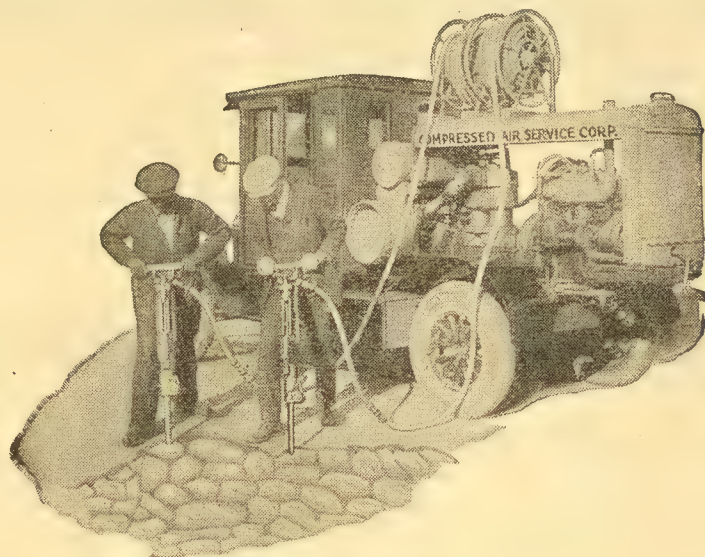
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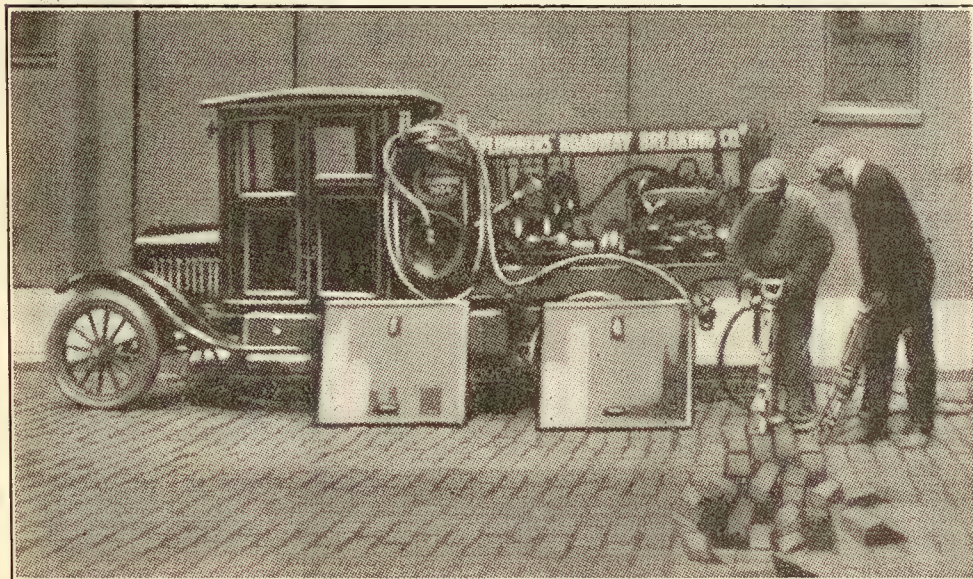
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 9

PHILADELPHIA
February 27, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY
BY

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1530 CHESTNUT ST., PHILADELPHIA

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, Southeast corner 46th and Spruce streets, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Magen, Gussman & Berman, 5403 Montgomery avenue, Philadelphia. Brick, steel, 4 stories 75x117 feet, slag roof, hardwood floors, tile work, elevators, incinerators, vapor heat, electric light. H. Gussman, 5403 Montgomery avenue, Philadelphia, is taking sub-bids.

War Memorial, Cottman and Oxford avenue, Philadelphia (Burholme War Memorial), Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owner, name withheld. Granite, limestone, 15 feet high, demolition, concrete work, bronze work, excavation, electric work. Architect taking bids due March 4th.

Home Building, 16th street and Allegheny avenue, Philadelphia. Architect, Hoffman Henon, Finance Building, Philadelphia. Owners, St. Joseph Home for Homeless and Industrious Boys, Rev. T. Park, on premises. Owners taking bids due March 6th.

Express Terminal, West end of South Street Bridge, Philadelphia, \$3,000,000. Owners, Penna. R. R. (Railway Express, Inc., R. E. Cowie, President; L. R. Parry, City Manager, 18th and Market streets, Philadelphia). Steel, concrete, capacity 90 cars. Plans drawn. Work contemplated.

Rectory, 22nd and Clearfield streets, Philadelphia. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South 15th street, Philadelphia. Owners, St. Mary Roman Catholic Church, Rev. P. Bernardo, on premises. Stone,

3 stories, 28x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Buildings, Ridge, Hagymill road and New Chestnut Hill Boulevard. Architects, Frank R. Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Owners, Protestant Episcopal Diocese of Pennsylvania, Bishop Garland, 202 South Nineteenth street, Philadelphia. Will build cathedral, Carillon tower, cloisters, chapter house, bishop, coadjutor bishop's residence, choir school, ecclesiastical art museum, library, homes for children, homes for aged, power house, 12 employees' cottage, ladies' chapel. Preliminary plans in progress.

Residences (72), Cottman, Erdrick, Drankford, Loring, Vista streets, Philadelphia. Architect, private plans. Owner, Carl A. Mayer, Princeton and Cristin streets, Philadelphia. Brick, 2 stories, hot water heat, electric light, tile work, slag and tin roof. Plans in progress.

Residence and Garage, West Hortter street, Germantown, Philadelphia. Architects, Mellor & Meigs, 205 South Juniper street, Philadelphia. Owner, A. T. Malmed, Broad and Locust streets, Philadelphia. Stone, 2½ stories and basement, irregular in size (plumbing, heating, electric reserved), bond, excavating, reinforced concrete work, cement floors, sandstone, granite sills, flagstone (B. Ridgeway & Sons, Robinson), hollow tile, carpentry and mill work, oak and pine floors, caulking, miscellaneous iron work, Truseon steel basement windows, area grilles, steel casements (Henry

Hope & Son or International), slate roofing (Emack or Robinson), tile and marble, composition floors, linoleum, metal lath, plastering, metal weather strip (Wolfe & Adams), screens. Architects taking bids due March 6th.

Two-Family Dwelling and Store, 8611 Germantown avenue. **Alterations to Store**, 8609 Germantown avenue, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owner, C. A. Hunsberger, 8609 Germantown avenue, Philadelphia. Brick, steel, 2 stories and basement, 78x18 feet, demolition, excavation, cement and concrete work, stone foundations, bluestone, iron work, incinerator (Kellopp, Mann & Co., Inc.), iron stairs, slag roof, asbestos shingle tile roof, N. C. pine floors, mineralite floors, mill work, stair work, metal lath, plastering, tile work, hardware, electric work, plumbing pipe (Byers or Reading), steam heat, oil burners, Minneapolis heat regulators or equal, radiators (Corte type or equal), plumbing fixtures (Standard or equal). Architect taking bids due March 1st, 10 A. M.

Schools (2), Tabor avenue, between Foulkrod and Harrison avenue; Thouron, between Washington lane and Mohican street, Philadelphia. Architect, Irvin T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Owners taking bids due March 5th.

Factory (alts.), 1021 Wood street, Philadelphia. Architects, H. H. Wislon Co., 22 South Fifteenth street, Philadelphia. Owners,

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Hotel Building, Central Philadelphia. Architect, William A. Young, 253 South Ninth street, Philadelphia. Owner, name withheld. Reinforced concrete, steel, fireproof, 8 stories, asphalt roof, concrete floors, elevators, tile work, metal work. Plans will be ready for bidders March 1st.

Apartment House, Greene, between Johnson and Upsal streets, Philadelphia, \$450,000. Owners, Gatincau Co., care of D. X. Shubin, 8031 High School road, Philadelphia. Brick, steel, concrete, size of lot 169x285 feet. Work contemplated.

Stores (3), 2527-29 East Cheltenham avenue, Philadelphia. Architect, Robert L. Gill, Jr., 5600 Germantown avenue, Philadelphia. Owner, name withheld. Brick, stone, 1 story, 50x70 feet, slate roof, black glass front, plate glass, copper bulks, metal ceilings, electric light, gas steam heat. Plans complete. Architect will be ready for bids in a few days.

Residence, Southwest Corner Kennedy and Tacony streets, Philadelphia, \$5,000. Architect, private plans. Owners, A. Slowik & Son, 4353 Pierce street, Philadelphia. Brick, 2 stories, 17 feet 10 inches x 60 feet, hot water heat, electric work, slate roof, oak and yellow pine floors. Permit issued.

Residences (2), 4430-32 Midvale avenue, Philadelphia, \$11,000. Architect, private plans. Owner, M. J. McCrudden, Thirty-fourth and Midvale avenue, Philadelphia. Hot water heat, 16x34 feet, brick, 2 stories. Permit issued.

Store, 8014 Frankford avenue, Philadelphia, \$8,000. Architect, private plans. Owner, Fred C. Rowe, Frankford avenue and Cottman street, Philadelphia. Brick, 1 story, 29x81 feet. Permit issued.

Store, Southwest Corner Seventy-seventh and Ogontz avenue, Philadelphia, \$5,000. Architect, private plans. Owner, A. Leibovitz, 1202 North American Building, Philadelphia. Brick, 1 story, 25x67 feet. Permit issued.

Store (add.), 2139 West Venango street, Philadelphia, \$4,000. Architect, private plans. Owner, William Williams, 127 South Eighteenth street, Philadelphia. Brick, 1 story, 24x80 feet. Permit issued.

Office Building, 1424 Walnut street, Philadelphia. Architect, Ralph C. Bencker, Thirteenth and Chestnut streets, Philadelphia.

Residences (17), Malvern and Upland streets, West Redfield street, Philadelphia, \$81,600. Architect, private plans. Owner, J. J. Kay, Upland Way, West of Fifty-eighth street, Philadelphia. Brick, 2 stories, 16x25 feet, hot water heat, electric work, oak and yellow pine floors, slag roof, tile work. Permit issued.

Warehouse, North side Melvale, East of Elkhart street, Philadelphia, \$15,000. Architect, private plans. Owners, McCuin Furniture Co., 516 East Girard avenue, Philadelphia. Brick, 1 story, 64x140 feet, cement floor, slag roof. Permit issued.

Contract 213, Broad Street Subway, Philadelphia. Owners, Department of City Transit, Thirteenth Floor, City Hall Annex, Philadelphia. Owners taking bids due March 14th at noon. Deposit, \$50, refunded. Certified check, 5 per cent. Track laying between South street and North of Girard avenue, Philadelphia.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Demolition and removal of stone building and appurtenant brick and wooden building on Town Hall site, Haines street, Germantown. Certified check, 5 per cent. Owners taking bids due March 7th at noon.

Department of Wharves, Docks and Ferries, Municipal Pier, No. 4, South Wharves, R. Weglein, Director, Philadelphia. Owners taking bids due March 1st. A—For construction with appurtenant work of Schuylkill River Bulkhead, East side Girard Point, Section 104. B—Construction with appurtenant work of Schuylkill River Bulkhead, East side Penrose Ferry Bridge, Section 105. C—Construction with appurtenant work of Schuylkill River Bulkhead, West side, North of Penrose Ferry Bridge, Section 106. D—Construction with appurtenant work, Schuylkill River Bulkhead, West side, North of Passunk avenue, Section 111. E—Improving and enlarging with incidental work of House of Correction Wharf, Delaware River. F—Furnish and placing of filling in substructure of Municipal Pier No. 80, South Delaware River. Certified check, 5 per cent.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Owner, Joseph Bernhard, Northeast Corner Thirteenth and Chestnut streets, Philadelphia. Limestone, brick, steel, 2 stories and basement, 186x27 feet (plumbing, heating, electric reserved), excavation, bond, demolition,

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concrete and cement work, Sanaslip heads or equal; metal lath, cement floors, hollow tile, plastering, caulking, built-up roof (Carey), roof ventilators, skylights (Penn Wire Glass or equal), dampproofing (Hydroseal or Horn or equal), metal toilet partitions (Hart & Hutchinson Sanymetal toilet partitions), iron stairs, rolled steel sash, casement windows, kalamein doors (Howell Field, Goddard or equal), marble, tile travertine, Monarch metal weather strip (Wolfe & Adams). Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Factory (add.), State road and Rhawn street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, J. J. Nesbitt, on premises. Brick, concrete, steel, 1 story, 143x109 feet, excavation, brick, hollow tile, cement floors, bond, granite, limestone, Master Builders' floor hardener, gypsum roof construction, Hydroseal or equal primer, slag roof, roof ventilators (Robertson or equal), fire doors (Sanco or Almet), dampproofing (Hydroseal, Parlock or equal), saw-tooth skylights (Lupton or equal), rolled steel sash, steel and iron work, linoleum floors, carpentry and mill work, marble work, acoustical work, waterproofing (Minwax or equal), painting. Contract awarded Harry Gill, Jr., 2515 Germantown avenue, Philadelphia.

Commercial Building, 52 West Cheltenham avenue, Philadelphia. Architect, Paul M. Hesser, 225 South Sixth street, Philadelphia. Owner, Joseph Farras, 60 West Cheltenham avenue, Philadelphia. Brick, steel, 2 stories, 1 story and basement, 90x22 feet, wing 22x65 feet, bond, excavation, concrete floors, Kernarator incinerator, iron work, metal lath, plastering, metal casement windows, saw-tooth skylights, marble and tile work, plumbing, brass pipe, wrought iron pipe, electric work, slag roof, skylights (J. S. Thorn), maple floors, vapor heating, radiator (H. B. Smith). Contract awarded J. L. Fawley, 2121 Walnut street, Philadelphia.

Alterations to Fifth Floor of Record Building for Show Room, Broad and Callowhill streets, Philadelphia. Architect, Clarence L. Caspary, sixth floor, 1701 Walnut street, Philadelphia. Owners, Lob-Hubhardt, Inc., care of architect. Plaster partitions, metal lath or Pronto board, linoleum wall finish, cabinet work, painting. Contract awarded Allen Construction Co., 1642 Hunting Park avenue, Philadelphia.

Store Building (alts. and add.), 639-43 North Broad street, Philadelphia. Architect, W. F. Silliman, 28 South Eighteenth street, Philadelphia. Owners, Harry T. Saunders, 28 South Eighteenth street, Philadelphia. Brick, steel, 1 story, 54x29 feet, slag roof, oak and

pine floors, plumbing, steam heat, electric light. Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia.

Store Building (alts. and add.), 224-30 North Twenty-second street, Philadelphia. Architect W. F. Silliman, 28 South Eighteenth street, Philadelphia. Owner, Harry T. Saunders, 28 South Eighteenth street, Philadelphia. Brick, 1 story, 132x45 feet, bond, excavation, brick work, terra cotta coping, iron work, cement floors, slag roof (Warren Ehret), galvanized iron skylights, painting, glazing, plumbing, electric work, steam heat, boiler (American Radiator). Contract awarded Haverstick & Borthwick, Schae Building, Philadelphia.

Store and Offices, Southeast Corner Broad and Tasker streets, Philadelphia. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1424 South Penn Square, Philadelphia. Lessees, Philadelphia Gas Works Company, Broad and Arch streets, Philadelphia. Aquia stone, brick, 2 stories and basement, 38x114 feet, built-up roof, terrazzo floors, vapor heat, electric light. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia.

Residences (fire repairs), East side State road, North Convent Lane, Philadelphia, \$6,000. Architect, private plans. Owner, Mrs. George R. Bower River Front, Torresdale. General interior alterations. Contract awarded M. K. Freas Sons, Andalusia, Bucks County, Pa.

Office (alt.), 1429 Walnut street, Philadelphia, \$6,000. Architect, private plans. Owners, Drexel & Co., on premises. General interior alterations. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia.

Factory (alt.), West side Darrah, North of Margareto street, Philadelphia. Architect, private plans. Owner, Joseph Niedenger, 1309 North Second street, Philadelphia. General interior alterations. Contract awarded E. Clifford Durell, 1713 North Twenty-fourth street, Philadelphia.

Spur and Coal Trestle, Twenty-fifth and Moore street, Philadelphia. Architect, private plans. Owner, Joseph Argenti, on premises. Erecting spur, 4 concrete pieces, 4 steel stands. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia.

Dairy (alt.), 4709 Lancaster avenue, Philadelphia, \$3,000. Architect, private plans. Owners, Supplee-Wills-Jones, Forty-seventh and Lancaster avenue, Philadelphia. Contract awarded George Kessler Contracting Co., 1733 North Mervine street.

Residence and Garage, North side Wigard, East Silverwood street, Philadelphia, \$8,800. Architect, private plans. Owner, Mrs. Mary Fleming, Shawmont, Pa. Frame, 2 stories,

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27x37 feet, hot water heat, electric, slate roof. Contract awarded G. L. & J. K. Callahan, 437 Oriole street, Philadelphia.

Office and Laundry (add.), 5418 Ella street, Philadelphia, \$11,500. Architect, private plans. Owners, Suburban Laundry, 5418 Ella street, Philadelphia. Brick, 1 story, 43x68 feet, electric work, yellow pine floors, slag roof. Contract awarded W. L. Bushnell, 322 West Tabor street, Philadelphia.

Residence and Store, 3027 North Twenty-second street, Philadelphia, \$9,500. Architect, private plans. Owner, Dennis Santanitto, on premises. Brick, 3 stories, 17 feet 8 inches x 71 feet, yellow pine floors, slag roof. Contract awarded D'Antolo & D'Andrea, 2329 West Somerset street, Philadelphia.

Storage, Northwest Corner Richmond and Kennedy streets, Philadelphia, \$4,400. Architect, private plans. Owners, Charles Lennig Co., on premises. Iron and frame, 1 story, 40x120 feet. Contract awarded M. Moister Co., Second and Bristol streets, Philadelphia.

Lumber Shed, East side Buelah street, South of Reed street, Philadelphia, \$4,000. Architect, private plans. Owners, Economical Mill Co., 2843 South Sherman street, Philadelphia. Brick, 1 story, 18x161 feet 6 inches, slag roof. Contract awarded Max Rust, 2033 South Sixth street, Philadelphia.

Factory (add.), and Service Shop, 7th street and Willow avenue, Phila. Architects, Harris & Richards. Drexel Building, Philadelphia. Owners, General Electric Co., on premises. Brick, steel, 1 story 80x180 feet; 50x75 feet (plumbing, heating, electric reserved), saw-tooth roof, concrete and wood block floors, structural steel. Contract awarded United Engineering and Constructors Co., Broad and Arch streets, Philadelphia.

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Power Plant, Chester, Pa. Engineer, C. M. Howell, Chester, Pa. Owners, Scott Paper Co., Chester, Pa. Brick, steel, concrete. Preliminary plans in progress. Work contemplated.

Residence and Garage, Drexel Hill, Pa. Architect, C. H. Jester, 141 South Fifty-second street, Philadelphia. Owner, name withheld. Brick, frame, 2½ stories, 28x40 feet, shingle roof, hardwood floors, hot water heat, electric light. Sketches in progress.

Church, Chester, Pa. Architect, Frank C. Watson, Chester, Pa. Owners, First Church of Christ Scientist, Chester, Pa. Brick, 1 story and basement, 40x60 feet, slate roof. Sketches in progress.

Farm Show Building and Coliseum, Eleventh and Maclay streets, Harrisburg, Pa. Architects, Lawrie & Green, Forster Building, Harrisburg, Pa. Owners, State of Pennsylvania, care of Secretary of Architecture, Harrisburg, Pa. 700x650 feet. Architects selected. Preliminary plans in progress.

Residence (alts.), Laverock, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, J. Platt, care of architects. General alterations. Architects ready for bids.

School (add.), Twin Oak, Pa. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owners, Upper Chichester Township School District, G. M. Snyder, Marcus Hook, Pa. Three-class-room add., finished basement, slag roof, brick, stucco. Ready for bids in 3 weeks.

Fire House, Drexel Hill, Pa. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Garrettford-Drexel Hill Fire Co., R. E. Freemont, Drexel Hill, Pa. Architect will be ready for bids on revised plans in a few days.

Garage, Ivy Rock, Pa. Engineer, Louis Ehlinger, Ivy Rock, Pa. Owners, Allan Wood Iron & Steel Co., Ivy Rock, Pa. Brick, steel, 10-car capacity, slag roof, cement floors, electric light. Owners ready for bids in a few days.

Factory, Columbia, Pa. Architect, S. Bryan Baylinson, 1712 Franklin Trust Building, Philadelphia. Owners, Marietta Silk Mill, Columbia, Pa. Brick, steel, concrete, 2 stories, 82x130 feet, built-up roof, concrete floors, electric light. Ready for bids in 10 days.

Office Building, Power House and Cafeteria, Section G (Baldwin Tract), near Darby Creek, Eddystone, Pa., \$8,000,000. Engineer,

David Lofts, Wrigley Building, Chicago, Ill. Owners, American Steel Foundry Co., Wrigley Building, Chicago, Ill. Brick, steel, concrete, 8 stories, 600x1100 feet. Baldwin Locomotive Company, Eddystone, will build and will be ready for sub-bids in about two weeks.

Church Building, Clark Summit, Pa. Architects, Office of George C. Baum, Early & Emmer, 1511 Arch street, Philadelphia. Owners, Trinity Evangelical Church, Clark Summit, Pa. Revised plans in progress.

Residence, Bethlehem, Pa. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owner, William Derr, 1724 Elm street, Bethlehem, Pa. Brick, 2½ stories, 30x50 feet, slate roof, hardwood floors, casement windows, electric light, tile work. Plans in progress.

Residence, Bethlehem, Pa. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owner, name withheld. Brick, 3 stories, 60x100 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble. Plans in progress.

Parochial School, Yeadon, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owners, St. Louis' Roman Catholic Church, Rev. T. J. Burke, Yeadon, Pa. Brick, stone, 3 stories. Plans in progress. Will be ready for bids in one month.

Factory, Lansdale, Pa. Engineer, F. M. Weaver, Lansdale, Pa. Owners, Lansdale Brick Co., H. E. Dinker, president, Penbrooke, Pa. Brick, steel, concrete, 1 story, 55x300 feet, asbestos roof, concrete floors, electric light, steel sash. Plans completed. Owners will take bids in one month.

Factory and Administration Building, Lansdale, Pa. Architects, Franklin & Conner, Lansdale, Pa. Owners, Franklin Pottery Co., Lansdale, Pa. Brick, steel, concrete, 1 story, 80x530 feet, 2 stories, 68x120 feet, vapor heat, electric light, metal lath, steel sash, fire and kalamein doors, built-up roof, concrete floors, structural steel, sprinklers. Plans completed. Architects will be ready for bids in a few days.

Church (add.), Hanover, Pa. Architect, I. M. Myers, Hanover, Pa. Owners, Grace Evangelical Church, care of Rev. E. J. Bayne, Hanover, Pa. Rear addition. Architect will be ready for bids in March.

Residence, Beth Ayres, Pa. Architect, Leigh French, Jr., 4 East Forty-ninth street, New York City. Owner, Joseph Wharton Lippincott, Second Street Pike, Beth Ayres, Pa. Stone, 2 stories and basement, 31x90 feet, slate roof, oak and pine floors, hot water heat, electric light. Architect taking bids due March 1st.

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Residence and Garage, Latham Park, Pa. Architect, private plans. Owner, George Runnel, 5634 McMahon avenue, Philadelphia. Stone, 2½ stories and basement, irregular in size, slate roof, oak and pine floors. Owner taking bids due March 2nd.

Swimming Pool and Bath House, Haverford, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Edward H. LeBouttiller, Haverford, Pa. Reinforced concrete, stone, 45x20 feet, bath house, 15x20 feet, shingle roof, cement floors, plumbing, integral waterproofing, electric light, flagstone. Architects taking bids due February 28th.

Apartment House, Eleventh and Main streets, Darby, Pa. Architect, T. B. Lippincott. Associate, F. H. Price, Jr., 204 South Forty-first street, Philadelphia. Owner, name withheld. Brick, steel, terra cotta, 6 stories, 115x130 feet, slag roof, 3 elevators, linoleum floors, steam heat, electric light, tile and marble work, rolled steel sash. Architect ready for bids due March 12th.

Grade Schools (2) (add.), Laurel Bend, Croyden, Pa. Architect, Charles H. Jester, 141 South Fifty-second street, Philadelphia. Owners, Bristol Township School, E. A. Smith, Newportville, Pa.; A. Seyfert, Laurel Bend, Pa. Frame, asbestos roof, 2-room add. Owners taking bids due March 7th.

Fire House, Cornwells, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Cornwells Fire Company No. 1, Ralph Simon, Cornwells, Pa. Brick, 2 stories, 36x50 feet, built-up roof, slag roof, concrete and wood floors, overhead doors, hot water heat, electric light. Owners taking bids due March 7th.

Residence and Garage, Devon, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, name withheld. Stone, steel, 2½ stories and basement, 120x30 feet, garage 42x23 feet, concrete and cement work, excavation, flagstone, carpentry and mill work, shingle roof, oak and pine, cement floors, metal weather strip, iron work, area gratings, plastering, metal lath, tile work, electric work, plumbing, septic tanks, wrought iron pipe (Byers or Reading, Pa.), vapor heating. Architects taking bids due February 28th at noon.

Residence (alts. and add.), near Buckingham, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, T. B. White, Springfield, Pa. Stone, 2½ stories, 18x22-foot add., garage, 1 story, 22x22 feet, general alterations to present building, 2½ stories, 21x75 feet, hardwood floors, electric light, tile work, metal sash. Architect taking bids due February 28th.

Store (alts.), West Gay street, West Chester, Pa. Architect, W. J. Corcoran, West Chester, Pa. Owner, Henry De Haven, on premises. New metal bulks, central heat, structural steel, interior alterations, composition floors. Architect taking bids due February 28th.

Reconstruction of School, Edgemont avenue, Parkside, Pa. Architect, C. M. Ryder, Chester, Pa. Owners, Parkside School District, J. H. Phipps, 2606 Edgemont avenue, Chester, Pa. Owners taking bids due March 14th, 8 P. M. General work, deposit \$5, certified check \$1,000. Electric, deposit \$5, certified check \$200. Plumbing and heating, deposit \$5, certified check \$200. Two rooms and basement.

Roofing and Sheet Metal Work on Borough Hall, Sharon Hill, Pa. Owners, Borough of Sharon Hill, H. E. Anschutz, Sharon Hill, Pa. Certified check, 10 per cent. Owners taking bids due March 4th.

Church, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Evangelical Congregational Church, Rev. G. Wesley Marquardt, presiding elder, 443 North Ninth street, Allentown, Pa. Brick, steel, 1 story, 52x65 feet, slate roof, concrete floors. Low bidder, Arthur Hauser, Emaus, Pa.

Consolidated School, Kulpville, Pa. Architect, W. Marshall Hughes, 147 North 5th street, Reading, Pa. Owners, Towamencin Township School Board, Leidy S. Kneibel, Secretary, R. F. D. 1, Lansdale, Pa. Brick, hollow tile, 1 story, 4 rooms, built-up roof, composition floors, roof ventilators, steel sash, fire doors (heating, plumbing and electric separate). Certified check, 5%. Owners taking bids due March 8th at 8 P. M.

Factory Building, Oak street and Broad Mountain avenue, Frackville, Pa. Architect, W. D. Shollenberger, 11 West 4th street, Williamsport, Pa. Owner, George Burchell, 15 West Frack street, Frackville, Pa. Work contemplated. Plans will probably mature in April.

Grade School, near West Hamburg, Pa. Architects, Black & Black, 600 East 2nd street, Harrisburg, Pa. Owners, Tilden Township School Board, G. C. Kershner, secretary, West Hamburg, Pa. 4 room. Owners taking bids due March 4th at 8 P. M.

Consolidated High School, Montgomery, Pa. Architect, W. D. Shollenberger, 11 West 4th street, Williamsport. Owners, Montgomery-Clifton School, care of Hartranft & Henderson, Montgomery, Pa. Deposit, \$10.00. Owners taking bids due March 9th at noon.

Church, Elizabethtown, Pa. Owners,

Church of the Brethren, Rev. Henry Ober, Elizabethtown, Pa. Work contemplated.

High School, Bridgeport, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 226 South 15th street, Philadelphia. Owners, Board of Education, J. C. Mulroy, Bridgeport, Pa. Brick, 2 stories and basement, slate roof. Architects selected, details undecided. Plans in progress.

Roadway and Street Repairs, Various Parts of Chester, Pa. Owner, Supt. of Streets and Public Improvements, G. J. Hunter, Chester, Pa. Owner taking bids due March 12th, 2 P. M., granite block, vitrified asphalt, concrete or bituminous material. Deposit, \$5.00, refunded. Bond, 50%.

Emergency System, Lester, Penna. Owners Tinicum Township School District, George Schwartz, Lester, Del. Co., Pa. Emergency system battery on motor generator system. Specifications may be secured from Edward Chamberlain, Front and Bartram avenue, Essington, Pa. Owners taking bids due March 5th, 6.30 P. M.

Theatre, Lancaster Pike, Swan Hotel Site, Downingtown, Pa. Owners, Harrison Brothers, 17 West Lancaster avenue, Ardmore, Pa. Work contemplated.

Theatre, 6 Stores and Apartments, High street, west of Gay street, West Chester, Pa. Architect, W. H. Lee, Schaff Building, Philadelphia. Owners, Harrison Brothers, 17 W. Lancaster avenue, Ardmore, Pa. Brick, steel, concrete, 2 and 3 stories, 140x158 feet. Theatre seating capacity, 2,300. Preliminary plans in progress. Work to start about May 1st. Owners will build and will sub-let.

Residence, Garage and Farm Building, Gladwyne, Pa. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, R. E. Griscom, Land Title Building,

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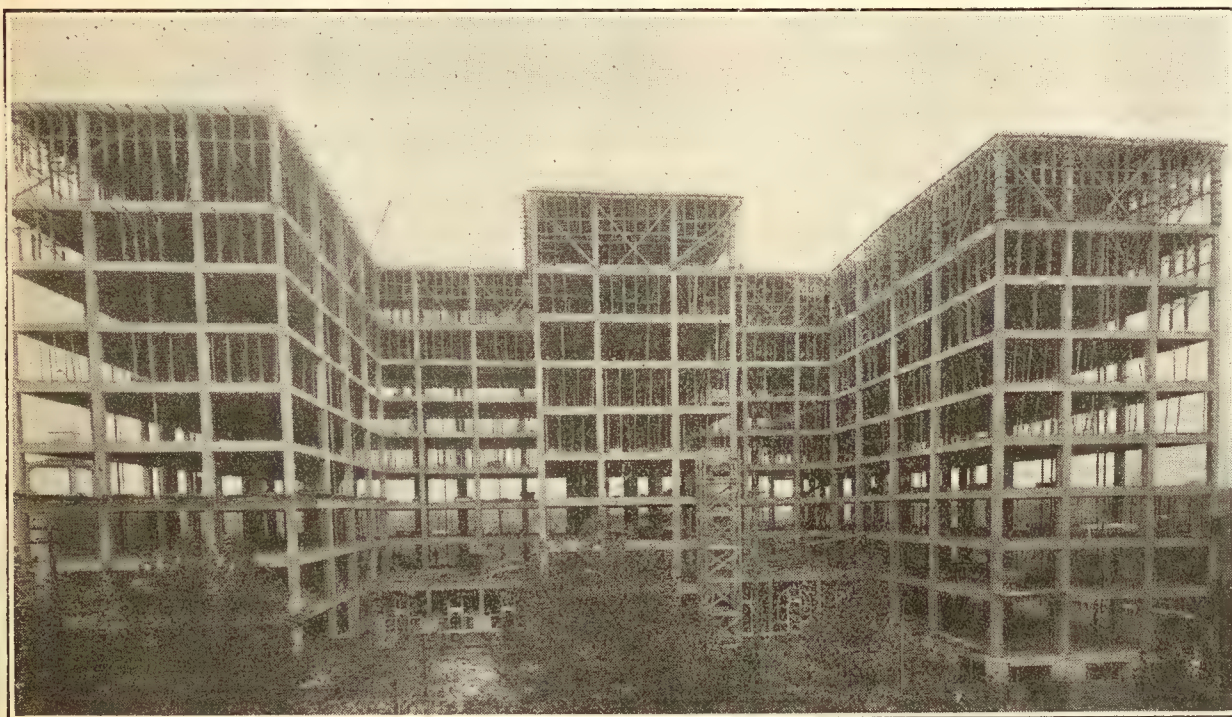
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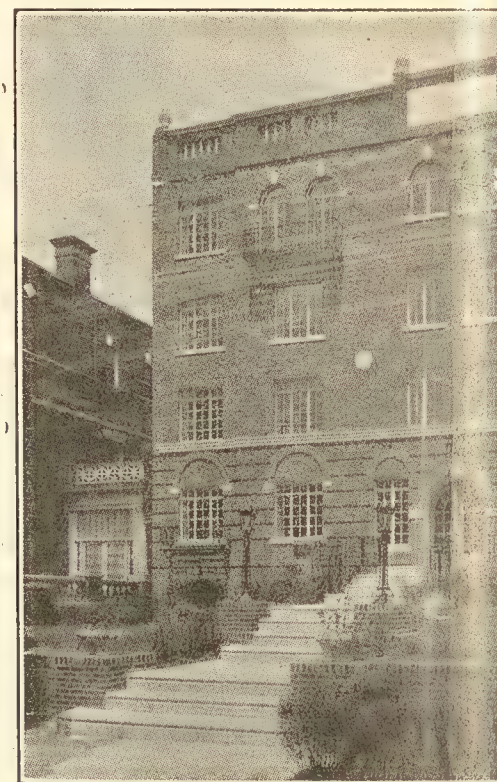
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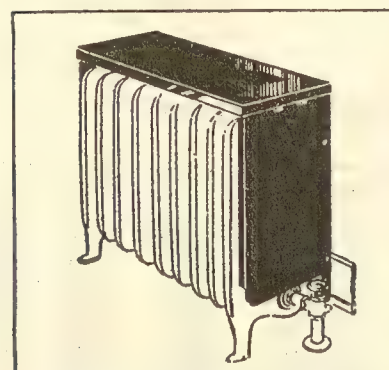
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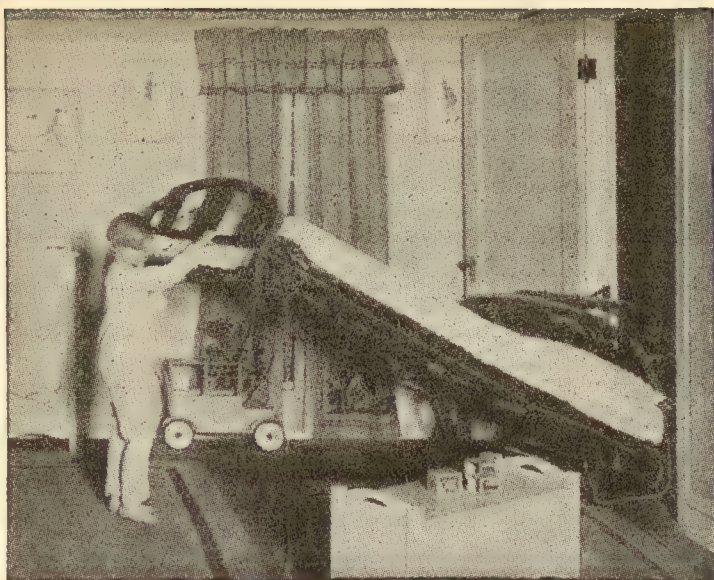
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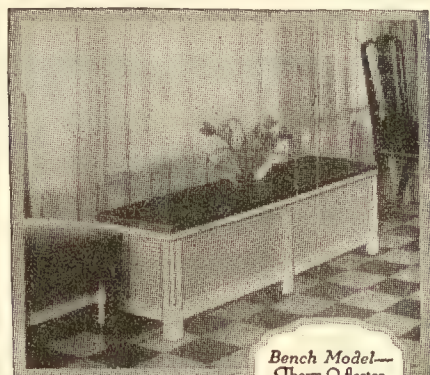
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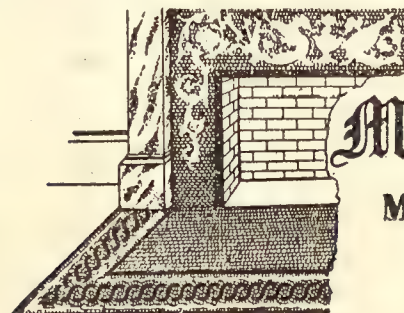
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Philadelphia. Stone. Preliminary sketches drawn.

Pennsylvania Contracts Awarded

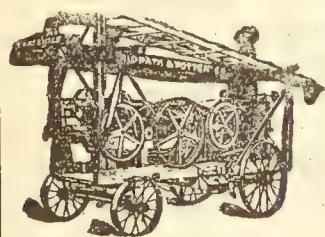
Mausoleum, Harrisburg, Pa. Architect, D. M. Rothenberger, 440 A Court street, Reading, Pa. Owner, Central Mausoleum Co., J. C. Lutz, Harrisburg, Pa. Granite, steel, 1 story, 123x55 feet, excavation, granite, concrete, reinforced steel, ventilated crypt, metal grates, grills, louvers, tile roof (Ludowici), celadon, sheet metal and bronze work, doors, ornamental and cast bronze, steel sash, glass, plastering, electric work, stone crypts (McDermott), blue sandstone, sheet lead. Contract awarded Curtis Co., 10 South Eighth street, Philadelphia.

Mill Building, Second and Weidman streets, Lebanon, Pa. Architect, Harvey T. Hauer, 811 Cumberland street, Lebanon, Pa. Owners, Lebanon Mills, Inc., Lebanon, Pa. Brick, concrete, steel, 1 story, 200x60 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Contract awarded Curtis Co., 10 South Eighteenth street, Philadelphia.

Office Building (alts.), Ivy Rock, Pa. Engineer, Louis Ehlinger, Ivy Rock, Pa. Owners, Allen Wood Iron & Steel Co., Ivy Rock, Pa. Interior alterations, new partitions, plastering, painting, glazing. Contract awarded F. R. Heavner, Norristown, Pa.

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Mortuary and Baptistry (add.), Norristown, Pa. Architect, E. T. Boggs, 225 South Sixth street, Philadelphia. Owners, St. John's Church, Rev. James M. Niblo, Norristown, Pa. New altar windows, etc. Alterations and additions. Contract awarded Friend Reiff Co., Norristown, Pa.

School Buildings (4), Valley Forge, Pa. Architect, Charles S. Powell, 2 Cricket avenue, Ardmore, Pa. Owners, Valley Forge Military College, Wayne, Delaware County, Pa. Brick, 2 stories, steam heat, electric light, slate roof, oak and concrete floors, tile and marble work. Plans in progress. Contract awarded Powell Construction Co., 2 Cricket avenue, Ardmore, Pa.

Alterations and Addition, Bala, Pa. Architect, Ralph White, 1518 Walnut street, Philadelphia. Owners, Philadelphia Country Club, on premises. Carpentry and mill work, tile work, painting, glazing, general interior alterations. Contract awarded C. C. Eddleman, 1713 Sansom street, Philadelphia.

Store and Apartment, Kennett Square, Pa. Architect, W. M. Corcoran, 139 East Biddle street, West Chester, Pa. Owners, Connor's Drug Store, Kennett Square, Pa. Changing partitions, electric work, painting and glazing. Contract awarded Percy Cope, Kennett Square, Pa.

Bridge over Miskey Run Creek, Delaware County, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Contract awarded William Reiter, Collingdale, Pa., \$375.

New Jersey Construction News

Bath House and Recreation Building, Gloucester, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Camden County Park Commissioners, care of architects. Brick, cinder block, 1 and 2 stories, 30x80 feet, tile roof, cement floors, roof ventilators, waterproofing and dampproofing, electric lighting, steel sash. Plans in progress.

Residence, Paulsboro, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, name withheld. Brick, 2½ stories, 24x36 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Store and Apartment House, Merchantville, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, name withheld. Brick, steel, 3 stories, 34x93 feet, slag roof, oak and linoleum floors, roof ventilators, vapor heat, electric light, tile work, skylights, store front, fire escape (iron). Plans in progress.

Bungalow, Haddon Heights, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, N. J. Meyers, care of architect. Brick, 1 story, 24x42 feet, asphalt shingle roof, pine floors, hot air heat, electric light. Plans in progress. Architect will be ready for bids at end of week.

Apartment House, Boulevard avenue and Bradley street, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Forest Hill Parkside Apart-

ment House Company, care of architects. Brick, timber, 3 stories, 150x84 feet, slag roof, pine floors, roof ventilators, flagstone, east stone, incinerators, area gratings, wrought iron pipe, ornamental iron work, iron stairs, fire doors, tile and marble, steam heat, electric light. Owners taking sub-bids at architects' office.

Residence, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, Joseph Lavine, care of architect. Brick, 2½ stories, 29x36 feet, slate roof, hardwood floors, hot water heat, oil burner, electric light, tile work, wood casements. Architect will be ready for bids at the end of this week.

Arcadia Cafe Building, 12 Hudson street, Camden, N. J. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owners, Arcadia Cafe, 529 Federal street, Camden, N. J. Brick, limestone, steel, 3 stories and basement, 90x19 feet, bond, excavation, stone foundations, marble, tile and terrazzo floors, steel sash, carpentry and mill work, painting, glazing, electric work, composition floor (Acme Asbestos, Covering & Flooring Co. or equal), skylights (G. Frowne Co.), plumbing, hot water heat, Johnson oil burner, boiler (American Radiator Co.), Corté radiators, dumb waiters (Energy Elevator Co.), metal lath, plastering, slag roof. Architect taking bids due February 28th.

Church, South Orange, N. J. Architects, Maginnis & Walsh, Boston, Mass. Owners, Church of Our Lady of Sorrows, South Orange, N. J. Stone and steel, 1½ stories and basement, 95x180 feet, slate roof (plumbing, heating, electric reserved), cement and maple floors, metal lath, tile, marble and terrazzo work. Architects taking bids due March 1st.

Warehouse and Loading Shed, New Brunswick, N. J. Architect, George S. Kingsley, 103 East One Hundred and Twenty-fifth street, New York. Owners, Sisser Brothers, New Brunswick, N. J. Reinforced concrete and brick, 5 stories and basement, 100x100 feet, concrete slag roof, concrete floors, rolled steel sash. Architect taking bids due March 2nd.

Naval Armory, Perth Amboy, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 1 and 2 stories and basement, 133x61 feet, wood pile foundations, reinforced concrete, membrane and integral waterproofing, steel stairs, iron work, maple floors, black slate roof, slag roof. Low bidder: G. W. Mercer Construction Co., Perth Amboy, N. J., \$95,000. Plumbing: Burns, Lane & Richardson, New Brunswick, N. J., \$5,468. Heating: John Mellen, Irvington, N. J., \$5,890. Electric, Buhl-Caffrey Co., Newark, N. J., \$3,909.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Route 3, Sec. 2, Paterson Plank Road Relocation in Secaucus and East Rutherford in Bergen and Hudson Counties. Route 44, Secs. 3 and 4, Bridgeport and Nortonville Causeways in Gloucester and Salem Counties. Owners taking bids due March 11th at noon. Deposit, \$10. Certified check, 10 per cent.

New Jersey Contracts Awarded

Central Power Plant, State House, Trenton, N. J. Architects, associates, J. O. Hunt, Hunt Building, Trenton, N. J., and H. A. Kelly, 921 Bergen avenue, Jersey City, N. J. Owners, State of New Jersey, State House Commis-

sioners, State House, Trenton, N. J. Stone, reinforced concrete, steel, granite, 2 stories, 55x100 feet, concrete roof and floors, roof ventilators, bond, grading, metal sash, tile, metal lath. Contract awarded Karno-Smith Construction Co., Broad Street Bank Building, Trenton, N. J.

Alterations to Building (two-story add.), Store Building, Broadway and Pine street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, W. L. Hurley Co., on premises. Brick, limestone, steel, 2 stories and basement, 50x48 feet, slag roof, maple and cement floors, steam heat, electric light, metal lath, ornamental iron work. Contract awarded Camden Construction Co., 505 Lawrence street, Camden, N. J.

Sewage Treatment Plant, Earlton District, Delaware Township, N. J. Engineers, Remington & Vosbury, Camden, N. J. Owners, Delaware Township Commissioners, Mrs. Wer-muth, secretary, Earlton, N. J. Brick, 1 story. Contract awarded Vincenzo Di Fran-cesco, Llanerch, Delaware County, Pa., \$66,492.50. Work to be started end of March.

Garage (add. and alts.), 1000 Haddon ave-nue, Camden, N. J., \$3,200. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Mary L. Kenny, care of architect. Brick add., 1 story, 3x16 feet, garage, 1 story, 15x16 feet, slag roof, electric light, cement work. Con-tract awarded George L. Anderson, 401 Franklin avenue, Collingswood, N. J.

Residence and Garage, 1212 North Twenty-second street, Camden, N. J., \$5,500. Archi-tect, private plans. Owner, H. G. Remmers, 1200 North Twenty-second street, Camden, N. J. Frame, 1½ stories, 24x36 feet, slate sur-face roof, hot water heat. Contract awarded Thomas H. Miller, Merchantville, N. J.

Bridge, Route 29, Sec. 2A, across Stuyves-ant avenue, Union County, N. J. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Contract awarded Mundy Pav-ing & Construction Co., 226 South Warnock street, Philadelphia, \$93,855.81.

Miscellaneous Construction News

Auditorium, Newark, Del. Architect, Charles Z. Klauder, 1429 Walnut street, Phila-delphia. Owners, University of Delaware, Newark, Del. Brick, stone. Plans in progress.

Remodeling Buildings, Juliens Creek, Va. Architect, James A. Wetmore, Treasury De-partment, Washington, D. C. Owners, United States Government, Navy Department, Wash-ington, D. C. Low bidders: Austin Engineer-ing Co., 566 South Boulevard, New York City, Item 1, \$42,500; Item 2, \$6,000. Evans-Fal-cone Co., 1420 Walnut street, Philadelphia, Item 1, \$47,365; Item 2, \$6,987.

Office Building, 10th and Market streets, Wilmington, Dela. Architects, Hood, Godley & Fouilnoux, 40 W. 40th street, New York. Owners, DuPont Building Co., Market street, Wilmington, Dela. Fireproof, brick, steel, frame, 4 stories. Sketches in progress. De-tails undecided.

Miscellaneous Contracts Awarded

Building, Wilmington, Del. Architect, pri-vate plans. Owners, Hajoca Corporation, J. Harvey Boston, president; Frank W. Dows, treasurer, Thirtieth street below Chestnut street, Philadelphia. Cinder block, brick and steel, 2 stories and basement, 50x100 feet, hot water heat, slag roof, electric light, rolled

steel sash, ornamental iron work, composi-tion and yellow pine floors. Contract awarded Franklin M. Harris, 1520 Parrish street, Phila-delphia.

STANDARIZING GOOD PRAC- TICES IN THE CONSTRUC- TION INDUSTRY

*An Address by F. H. FRANKLAND, M.
AM. Soc. C. E., Manager of Techni-
cal Services, American Institute
of Steel Construction, Inc.*

Until recently Boston forbade the con-struction of skyscrapers, yet Boston was troubled with as great a congestion prob-lem as any city in the U. S. This is an in-teresting fact to contemplate inasmuch as we so frequently hear that the skyscraper is causing city congestion and the height of buildings should be limited. London attempted just that through its antiquated building regulations, and yet London has a more serious traffic problem than New York.

Now that the restrictions are off, Bos-ton is building a new North Station which, in its now incompleated form, pro-vides restaurants, a sports arena and a terminal for all kinds of traffic. Later a hotel will be added. And persons visit-ing Boston for attendance on a prize fight or other big meeting need never leave the building and will not be compelled to wade through the thickly congested streets of the city. In Chicago a similar undertaking, in what is known as the Ap-parel Mart, is being planned. Structures such as these are relieving the traffic con-gestion in cities. But it is obvious that would have been impossible of accom-plishment had the builders been restricted by harassing laws and regulations.

Many other significant instances could be cited to you to prove the necessity for a better education of the public into the problems of construction and of build-ings. Our troubles come very largely through ignorance or prejudice. We must remove them through a campaign of consistent education and a frank dis-closure of the details of our operations.

The American Institute of Steel Con-struction, which I am pleased to represent today, was organized for the primary purpose of relieving the ignorance of the public in regard to structural steel. The organizers of this association felt that

they were working with a material that is unsurpassed in efficiency, a material whose chemical properties are as purely concocted as the drugs upon the shelves of the apothecary.

Previous to 1885 a very limited amount of structural steel was used in building construction. Up to that time most of the iron used for construction purposes was employed in bridge building work, and consisted almost entirely of wrought iron and cast iron. About 1885, however, there developed in this country the com-mercial possibility of producing large in-gots of steel from which could be rolled various structural shapes that have re-sulted in a complete revolution of our bridge and building industry. An entirely new era of human history came into ex-istence with the transition from the Iron Age to the Steel Age, and this has been accompanied by one of the most remark-able industrial developments which the human race has ever experienced.

The various rolling mills producing the hot metal which they rolled into struc-tural shapes, employed talent from the then existing bridge industry to prepare

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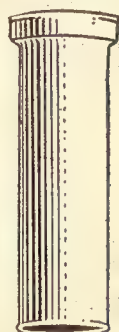
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data on the proper use of structural steel for bridge and building purposes, and this data was published in the form of mill handbooks which constituted one of the greatest contributions that any industry has made to public development.

Little or no information existed as to the proper standards that should be used for this new product, and the engineers employed by the various mills adopted at that time a basic unit stress of 16,000 pounds, but unfortunately overlooked the fact that the manner in which this basic unit stress is used is sometimes more important than the unit stress itself.

The various city officials throughout the country based their building code requirements on the 16,000 pound unit stress appearing in the original mill handbooks, and this phase of steel construction soon passed under the influence of legal requirements. It has been claimed that the waste in our national industries is responsible for approximately \$100 per capita per annum in our living expenses. This in itself amounts to approximately \$11,000,000,000 per annum for the nation. It is useless to suppose that all of this can be promptly eliminated, but there is no doubt that a large reduction can be made.

About forty years ago, or in 1885, it became commercially possible to attain temperatures which resulted in the production of steel ingots of such dimension that rolled structural shapes could be made from them. Since that time there has been greater and more revolutionary changes in our industrial processes than in any previous two thousand years of history. We are standing so close to the threshold of a new era, that it is difficult to accurately appraise the great changes through which we are passing. Almost everything that we consider essential to modern conditions has been developed since that time.

In the meantime Bessemer steel, which constituted the original product, was found to have undesirable physical properties, as then produced, and there immediately developed the Open Hearth process, which eliminated the undesirable physical properties met with in the Bessemer material as then produced.

The bridge engineering talent which devised the original mill handbooks recognized, in adopting their standards, that

little was known of the new field in which the material would be used, that the talent qualified to direct its uses was very limited, and that little consideration was given to the proper selection of live loads and the determination of such stresses as those caused by wind, impact, and secondary conditions.

As experienced and skill developed in the talent directing the uses of steel, it was immediately recognized that the 16,000 pound basic unit stress interfered with the attainment of the full economies possible through the use of structural steel, but they were confronted with the existing building codes restricting the conditions in this branch of the industry. The other branch of the industry, namely that of bridge construction, had not come under legal restrictions, and engineers in this class of work took advantage of the economies which were possible.

It will be noted also that, up to a very recent date, the engineering profession has attempted to take care of their lack of knowledge of the effect of live loads by modifying the unit stress. Modern practice, as represented by the American Railroad Engineering Association ruling uses the same stress for both live and dead load, and provides a formula for converting the live load into the equivalent static or dead load stress.

It will be noted too that the practice of using increased working stresses in steel is not the result of the competitive influences of other materials of construction, but is based upon the economic conditions of the material used.

Individual whims have resulted in almost every form of irresponsible practice, which tends to break down fair competition and leave the responsible bidder, as well as the purchaser, in the dark as to whether his work is in competition with unit stresses, assumptions, omissions, or cost of production. This practice has gone so far that in some cities engineers have sometimes entirely neglected the question of live loads in order to meet competition, and as a result the structures are actually designed on stresses of 20,000 pounds or more, while the responsible competition are using much lower stresses. The chaos resulting from the development of such a wide range of individualism naturally results in serious economic waste of which the responsible

engineer, architect and manufacturer, as well as the owner, is the victim.

So many column formulas and other technical modifications of the basic unit stress have come into existence, that the leadership once established by the mill handbooks at the inception of this new era of construction has been lost; and it is evident that if fair competition is to be re-established, it can only result from the re-establishment of uniform standard practice.

The fabricating industry of the United States and Canada have a very heavy financial investment in plants and organizations, which are vitally dependent upon something being done to correct existing conditions.

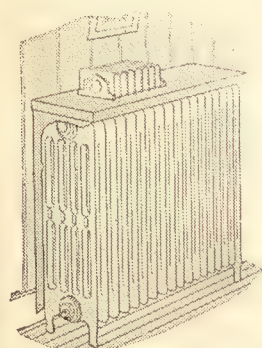
We believe that it has been the thought of the United States Department of Commerce that the various industries involved in the necessity for standardization should be initiative in promoting this work. For this reason the American Institute of Steel Construction have been conducting a campaign which has already been recognized as constructive and effective in eliminating the evils of existing conditions. It was recognized when this work was undertaken that as far as possible, all questions of commercial domination should be eliminated, and for this reason a committee was selected from the leading talent in the engineering, architectural and academic fields to prepare a Standard Specification regulating the Design, Fabrication, and Erection of Structural Steel.

Another consideration which the American Institute of Steel Construction has realized is that the mere recommendation of a unit stress or a specification will not in itself result in uniform practice, and for this reason there has been prepared a comprehensive manual entitled "Steel Construction," presenting data relative to the application of this specifications to the numerous rolled structural shapes now being produced by the various mills, and incorporating in the same volume the Code of Standard Practice and the Standard Fireproofing Specification.

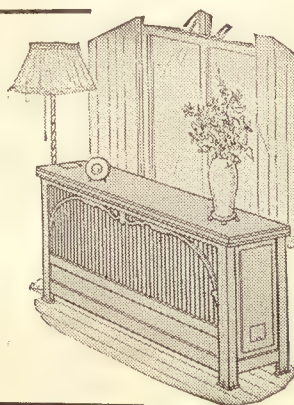
During the past year the Institute has been actively engaged in furthering the adoption of the Standard Specification in the comparatively few cities not yet on our list, which now includes 172 names.

Standard uniform practice in the design, fabrication and erection of structural steel is now in effect throughout most of the United States and Canada. During the years ahead the industry and the general public will experience, to an increasing degree, the benefits inherent in a more economical and efficient use of structural steel.

It must be recognized that the rolling mills, which have above been referred to, as the hot metal industry, are the source of supply to numerous cold metal indus-



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tries between them and the public. Their handbooks have of necessity had to incorporate the numerous sections rolled for those various industries, with the result that the architectural and engineering industries are often at a loss to know which are properly classified as structural steel shapes.

It is the purpose of the handbook prepared by the Institute to incorporate data regarding those sections rolled by all of the mills, which are properly classified as structural shapes, and in this way eliminate many of the useless sections that properly belong to other industries. This will greatly reduce the amount of material necessary to carry in stock in the various fabricating plants, and at the same time result in more frequent rollings of the mills themselves. In addition to this the rolling mills will be able to eliminate many of the rolls now used with the corresponding economic saving.

The Institute has in this connection already standardized the dimensions for rolled structural steel slabs for column bases, which have been found by engineers very desirable for these purposes. The result has been that already a product which in the past has been undesirable from the mill's standpoint, has become a very desirable source of tonnage.

The data which is being prepared relative to the various structural shapes will show on one page all of the essential information relative to the use of any structural sections. The present mill handbooks have this information distributed on from six to eight pages, and in many instances consideration is not given to vital questions relative to the use of the section. With this information combined in one place, much has been accomplished in eliminating irresponsible or incompetent designing.

In the discussion as presented, nothing has yet been said of the effect which the incompetent designer exercises on the industry. It has been the experience of practically all building commissioners throughout the country that incompetent designers entirely ignore the fundamental conditions connected with the selection of proper material to carry the loads. These so-called designers lack the necessary talent to qualify them for the work which they undertake, and they are in many instances entirely incapable of understanding the significance of a unit stress or a specification regulating the use of that unit stress. Their processes are dominated by a system of guessing, and it is evident that no unit stress or specification at the present time has any consideration in their so-called design. It may be claimed by some that the unit stress should be low enough to make safe anything which this class of designer may contemplate; but it requires but little

thought to realize that no stress selected would accomplish this purpose. If it is supposed that this class of designer will attempt to modify his practices to take advantage of changed unit stresses, it will produce a wholesome effect, in that it will be the first effort he has made to consider any unit stress at all, and the ultimate result will be that in order to obtain the economies that are possible, he will consult with those competent and qualified to properly advise him.

This result is indicated by the experience of the Building Commissioner of the City of Boston, who states that previous to the revision of the Boston Building Code, practically all of the plans coming into his office ignored the proper consideration of stresses. In a written paper presented before the Building Officials' Conference in April, 1925, this Building Commissioner stated that one of the results already noticeable was the fact that under present conditions very few mistakes were being made.

Another result of the wide range of individual practice in various sections of the country is shown in the variation of the numerous physical conditions connected with the execution of contracts for this class of material. To correct these innumerable evils, the Institute undertook the preparation of a Standard Code of Practice, defining the various physical conditions relating to the execution of structural steel construction. Data was assembled dealing with local conditions in every section of the country, and after exhaustive study a proposed Code of Practice was issued to several hundred architects, engineers, manufacturers, and academic institutions. As a result of their criticisms and suggestions, the Code was revised incorporating these suggestions, and reissued. By the repetition of this process, there was evolved the present Code of Standard Practice which has been described as constituting

one of the most constructive contributions developed in any industry. It is clear in its definitions, fair to both the buyer and seller, and has already been adopted by numerous buyers and sellers as the basis of their contract obligations. It does not in any way deal with subjects that may be classified as ethics, but restricts itself to the definition of physical conditions intended to eliminate the innumerable misunderstandings and controversies that have existed in the past.

The full significance of the economic saving which is resulting from the work which the Institute is doing, is very difficult to accurately appraise. There is, however, a basic physical saving of from ten to twelve and a half percent of the steel required for construction purposes, which should amount to over twenty-five million dollars a year. In addition to this, there is an economic saving in the personnel of the fabricating companies of the country, in that under present conditions most highly talented and expensive men have been engaged in the defensive operation of studying the numerous specifications upon which they are bidding to determine if any unusual conditions are required. This talent can be converted into productive effort of the highest type. There are innumerable other incidents connected with the administration of steel construction that will be very materially effected in the adoption of uniform practice.

It must be recognized that in some instances it will be difficult to submerge individualism, but with the co-operation of the responsible elements which constitute a large part of the engineering, architectural, and manufacturing branches of the industry, it will be possible to attain uniform practice upon which fair competition is alone possible.

I have dwelt at no inconsiderable length upon our work in standardizing the specifications for structural steel for, as an

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engineer, I believe this is one of the greatest contributions the steel fabricators have made toward the improvement of construction in this country. I am not alone in that belief, for it has come under my direct observation that the work of the American Institute of Steel Construction is being adopted in the best European practices.

In Europe the skyscraper was practically non-existent prior to the war. During the years since the Armistice reconstruction has been very slow. Today the housing problem is still depressingly keen, and the governments are being urged to take rather definite steps. Direct advances of public moneys for the building of new homes has not been sufficient. And in numerous instances the building codes of the leading European cities have been temporarily set aside so that a true skyscraper structure could be erected. American engineers trained in the designing of the skeleton-framed buildings have, within the past few months, been engaged to go to Europe to instruct the engineers there in our skyscraper art.

Prejudice against fabricated steel, based upon untenable assumptions, is being gradually allayed both at home and abroad. I feel that the American Institute of Steel Construction should be given credit for the efforts expended in proving to the public at large that the value of steel as a building material has not been sufficiently appreciated, that its merits are far superior to what was believed even by those in the construction industry who should have known better.

THOUGHTS ON "BID PEDDLING"

By J. B. OHLIGSCHLAGER, *President National Concrete Construction Co., Louisville, Ky., in The Associated Contractor*

The construction industry is one of the greatest, and those of us who are engaged in it can make it greater; but, in my candid opinion, this can only be done through organization and close co-operation. That we need co-operation is evident from this vital subject of relations to the sub-contractor; and the problem of peddling bids is as much the fault of the general contractor as it is of the sub-contractor. They are both to blame and it will take united action on the part of both to remedy this evil. It is this peddling of bids between the general and sub-contractors that gives the architect and owner the thought that he can do the same; and he usually does to his advantage.

A Good Slogan

There has, recently, a slogan cropped out, and I hope it will be put in red ink on every contractor's letter head, namely, "My First Bid, My Last Bid." When you have backbone to stand behind that

statement, the time will come when there will be no occasion to peddle the sub-contractor's bid. As the matter now stands, as soon as the general contractor has been awarded the contract, the subs come about to learn what low bid they have to beat. Whether or not the lowest bidder has made a mistake does not seem to interest them. The main point is wanting to learn what the amount of the low bid is, and it is seldom that the general contractor cannot set the price he will pay the sub-contractor. To my mind, this is why the general public thinks the profits are so enormous in the construction industry, and why the owners and architects expect you can always make a reduction when called in.

Contractors do not seem to want profits nowadays, but the height of their ambition is to get a contract. As I mentioned before, not only the subs, but the general contractors, seem to be using the same tactics.

Exchange Reorganized

At Louisville, we have recently reorganized a Builders' Exchange. We have had exchanges for the past thirty years. Good, bad and indifferent, but the contractors in Louisville always felt they needed one, and after many attempts have reorganized the Builders' Exchange, to which the sub-contractors are admitted. Each of the various sub-trades are represented on the board, and so far they have succeeded in organizing six or seven branches, who submit the bids to the secretary, at the same time they do to the general contractor. Having this bid on file with the secretary, it fixes the amount of the low bid in this branch. The other bidders are notified of the low man and the amount, and they are honor bound not to change their bid on file.

This method is now in operation with six or seven of the sub-trades, and seems to be working to the satisfaction of all. There is no objection to any bidder getting the work on his bid, provided he does not meet the low bid by cutting his bid. It is the hopes of the general contractors and sub-contractors that this method will soon be established by all the sub-trades in the building line. While they have not all the sub-contractors in the Exchange, their aim is to get the majority of the representative bidders and they are being assisted by the general contractors who urge all the sub-contractors to unite with the Builders' Exchange, the general contractor believing it is only by establishing the slogan of "My First Bid, My Last Bid." all down the line, that any good results can be brought about.

While we realize there will be some slips, but with the general contractors backing up and encouraging the slogan of the sub-contractors, the sub-contractor will not cut his bid very often before it becomes generally known.

We are firm believers in organization, realizing it is only through organization that we can accomplish anything, and are looking forward to the time when the construction industry in all of its branches will be organized like many of the successful industries.

Notice Sent to All Interests of the Building Industry

The following declaration of policy has been adopted by the membership of the General Contractors Association:

It must be positively understood that every bid tendered and every price quoted to any general contractor must be the lowest and best the first time. Any sub-contractor reducing his bid or any material dealer reducing his quotations, after any general contractor has submitted his bid, will be barred from figuring with or quoting to any member of the General Contractors Association. In other words, there must be no shopping by either party concerned.

It is believed that this declaration is plain enough to require no explanation. The Association is determined to break up peddling and shopping and will refuse to do business with sub-contractors and dealers who cut prices either to our members or others.

It is our confident expectation that every sub-contractor and dealer will refuse to quote any general contractor who will not subscribe to and abide strictly by the same terms as we have prescribed for our membership.

Yours very truly,
GENERAL CONTRACTORS ASSOCIATION,
D. R. LYMAN, *Secretary*.

POPULARITY OF BUILT-IN FEATURES IS EXPLAINED

The popularity of built-in features is explained by the fact that their compactness allows more space for the center of the room, and in this way saves the house from being crowded with an abundance of furniture.

Moreover, a large percentage of built-in features in one's home materially reduces its furnishing cost. This detail works to advantage in two marked ways. The occupant of the house may use the money thus saved for other purposes or he can divert it toward the purchase of more expensive furniture which otherwise would have been beyond his buying power.

The home owner is not limited to the use of varnishes and stains, such as mahogany, oak and walnut, but also may have the pieces finished in ivory or in the unlimited range of colors obtainable in enamels and lacquers.

Briefly, the built-in feature may be made to either harmonize or contrast with

the color scheme of the room, permitting the house owner to express his individuality and personality in a way that would have been difficult with stock furniture.

—*East Bay Builder.*

IN REPAINTING HOUSE MANY THINGS MUST BE REMEMBERED

Every executive knows that he must understand the fundamentals of the work which he directs if he wants a good job, that he must have a firm grasp of the methods employed if his supervision is to be efficient.

This is a universal principle which holds with as great rigidity in the home as in the office. From the commonplace tasks of routine household affairs to the intricate problem of constructing a home, a general knowledge of methods will be necessary for intelligent supervision.

When the property owner is ready to paint or repaint it will be well for him to have such knowledge. A few pointers on how to get a good job are worth remembering.

Surface preparation is the first thing to be considered. If the wood is either old or new and is in good condition, it will require only a thorough dusting to remove the loose articles of dirt. Possibly there may be a few rough places that will need scraping or sandpapering. The preparation in such cases is thus entirely simple. But a house that has been neglected until the paint becomes cracked and scaly presents a difficult problem.

Burn Old Coating Off

The old coating must be burned off before the new can be applied. As this is a task by no means simple and one that involves a fire risk, it is imperative that it be intrusted only to a painter who knows his job. If the surface is not carefully prepared, no amount of paint can give a good result.

Incorrect weather conditions are another factor which may completely spoil any job. If they are not heeded scaling and blistering will almost inevitably result.

When this occurs the tedious and expensive task of removing the faulty coating must be faced before another coat can be applied to correct the condition. Moisture is the most dangerous element. For the surface to be dry does not suffice. Often when frosts, fogs or snow have been present the condensed moisture is left in the wood even when it cannot be detected.

If paint is applied under these conditions it will become blistered when the temperature rises and the sun draws the moisture to the surface. Painting in the hot sun is also disastrous. Again, the temperature must not be too low. As a rule if the painter can do the job without great discomfort the weather will be quite warm enough to give good results.

Good Paint for Good Results

A last point to be kept in mind for exterior, indeed for any, painting, is that skimping is false economy. If three coats are recommended, and they always should be for new work, three coats will prove an economy. Again, good paint only can give good results. Poor products are just as expensive to apply and they are inevitably unsatisfactory. Finally, the painter must know his job.

For interiors the same general principles hold true. Surface preparation, however, is necessarily different for plaster and for wood. Plastered walls must first of all be treated for free lime, which if allowed to remain will cause spots to appear in the final finish. A solution of zinc sulphate, eight ounces to a gallon of water, applied with a brush, will eliminate this danger. After rough places on the walls are sandpapered and any cracks or small holes present filled with plaster of paris, they must be primed.

Otherwise the "suction" will leave the pigment on the surface in such a way that it will soon dust off. The best preparation for this purpose is boiled linseed oil or a good wall varnish.

The value of paint for economic and artistic purposes needs no elaboration. We all know the truth contained in the household phrase, "Save the surface and you save all." And the power of paint to

beautify is self-evident. But remember, if you want the best in economy, the best in artistic value, you must have the best application.—*East Bay Builder.*

PAINT AN INVESTMENT AND PAYS DIVIDENDS

It has been said many times that paint is an investment, not an expense; that paint pays dividends, and that money spent for paint is money ultimately saved.

At the word "investment" most of us think of stocks and bonds, from which we receive neat little coupons that have a cash value at any bank. It is a little difficult for most of us to conceive of paint in the same terms, but, as a matter of fact, paint is an investment and does pay dividends. What is more, it has been estimated by authorities that paint pays 12 per cent.

Of course, paint on your house issues no coupons, but careful consideration will show that, coupons or not, paint is one of the best investments a property owner can make.

The light reflecting properties of paint when used on interior walls, ceiling and woodwork, conserve daylight and decrease electric light bills by as much as 20 per cent. Painted surfaces cut down labor costs in the home, office, store or factory. Better lighting conditions prevent accidents and so cut down liability insurance. These three definite sources of saving make up at least a 1 per cent. dividend.

Aids in Sanitation

Of recent years it has been scientifically demonstrated that people work better in pleasant surroundings. More interest in the work, greater efficiency, and more initiative are apparent when working conditions are good. This applies both to home and business life. Surely the added zest that neat, attractive, well-painted surroundings lend, pays at least another 1 per cent.

Every civilized country is spending huge sums for sanitation. Sanitation means cleanliness. It means the wiping out of breeding places of mosquitoes and flies. It means the establishment of phy-

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sical conditions that are undesirable for germs and vermin.

According to the health departments of a number of our largest cities, and in line with tests and demonstrations made by scientists, paint is one of the most efficient agents in making the home, office, factory or store clean and sanitary. A paint film closes the pores in plaster, seals cracks and spaces in woodwork, produces surfaces on which dirt and germs find poor lodging.

No one attempts to estimate the value of human life in dollars and cents. Sanitary conditions prevent diseases and death, reduce doctor bills, and avoid loss of income due to illness. Good health maintains a higher earning capacity. For all of these reasons, and because of the active part which paint plays in promoting true cleanliness, it has been estimated that in sanitation alone, paint pays 2 per cent. dividends.

Good Insurance Against Loss

Then there is the matter of beauty, which is just as difficult to estimate in dollars and cents as health. Many surfaces cannot be attractive unless painted. The full beauty of wood is never apparent until it is varnished. Nearly every surface in the house depends for its good appearance upon either paint or varnish. As for the outside, it has been estimated that good painting increases the beauty of many a building 100 per cent. In beauty, therefore, paint pays a 3 per cent. dividend.

Paint is the one best insurance against losses resulting from weathering and decay. Paint protects a house and keeps it in good condition. Weathering and decay alone, undeterred by paint, result in losses of over \$1,500,000,000 a year for neglectful property owners.

While most of us are willing to pay for fire insurance because of the sense of security which it brings, few of us realize that weather insurance is really more necessary because while fire rarely threatens, weathering and decay are constantly at work to lower houses into dust. It has been estimated that if a house is painted every five years its value increases about 5 per cent. at each painting.

Certainly the actual saving effected by paint, in preventing deterioration, is worth a considerable sum. In terms of property protection, therefore, paint pays at least 5 per cent. Add up the total and you have 12 per cent in actual, tangible benefits.

A 12 per cent. dividend is an unusual business proposition. Unlike other propositions of similar nature, neglect to invest in paint involves not only a loss of this large dividend, but incalculable losses in desirability, resale and loan values, prestige and many other things that home-owning involves.—*East Bay Builder*.

MASS PRODUCTION AND HEALTH

Whatever indictment might be charged against the present trend towards business consolidations and mergers, the development of powerful chain store systems and other super-enterprises, the really interesting and significant phase of this economic struggle is the steadily improving condition of the worker.

In spite of the many substantial indications of a great prosperity in this country, there are still those who are what the Wall Street professional would call "perennial bears"—confirmed pessimists who see nothing but the gloomy side of any situation. They decry the passing of the small retailer and wonder what he will do to fill his economic notch. They paint black word pictures of the diabolical connivings of organized capital and predict relentless slavery for millions of industrial workers.

The trouble with these alarmists is that they have truly lost their mental perspective and overlook some very important points. They forget that more has been accomplished during the last two decades in ameliorating the condition of the worker in industry than for centuries before. The twelve-hour day, which existed ten years ago, is history. Some of the more sanguine of labor and industrial leaders are looking forward confidently to the five-hour day, five days a week. Wage scales have improved despite a feeling in some lines that they could be still better. There is a changed relation for the better between capital and labor, due largely to a deeper and fairer comprehension of the other fellow's problems.

From a broad humanitarian viewpoint, however, a very vital fact is that actual working conditions have been improved immeasurably. Industry—highly organized for mass or quantity production—has found that it pays to protect the health of the worker by giving him plenty of light and clean air and by removing the causes which formerly were a menace to his physical well-being and made accident easy.

In many of the manufacturing processes of America's basic industries, dangerous gases, fumes and dusts are created but, through the adoption of modern methods of controlled ventilation and air conditioning, are mechanically collected and carried away. In the old days these poisons were allowed to harass the worker and sow the beginnings of tuberculosis, painter's colic and other scourges. They were the conditions, too, which permitted destructive explosions of gases or dusts or were the origin of death-dealing fires.

With the announcement recently that some of the largest insurance companies are taking a new interest in air and other health conditions in industrial plants,

office buildings and public garages, where thousands are employed, there are further reasons for encouragement. It is an actual fact, for example, that insurance companies have reduced fire and accident rates on plants where the risks have been lessened by provisions for air conditioning, not only for ventilation, but for the prevention of explosions and fires. The insurance companies are very materially interested in the public health and mortality figures.

How business men and the insurance companies generally are striving to further improve working conditions in factories was told to a group of engineers at a meeting in Detroit recently by W. J. Graves, consulting industrial engineer for one of the largest liability companies in Michigan.

"Much money has been spent and is being spent for equipment in an endeavor to better working conditions," he said. "More than ever before executives are realizing that better light and better air are factors in production. We breathe through the pores of the skin as well as through the nose and, therefore, air temperature and humidity become factors in production. The comfort of the worker depends on these factors. Thermometers in the work room should be used to gauge results. We are all agreed that man-power is the big essential element of production. We must take as good care of our workers as we do of our machines if our factory is complete and yields dividends."

DON'T FORGET TO CONSIDER COLOR OF WOODWORK

In any decorative scheme, don't forget to consider the color of the woodwork. When the wood used for window and door trim is oak, cypress, maple or birch or any wood with a beautiful grain, a waterproof varnish will give luster and bring out the grain.

Woods vary in shade from light to dark brown or red. The color scheme of the room should be kept in similar tones or warm colors. Contrasting colors can then be used in some of the furnishings to give the room animation.

Light woodwork is very fashionable, and there are excellent varnish stains and enamels on the market that will give just the shade or tint in the woodwork that the color scheme of the room demands.

Varnish stains color the wood and let the grain show through. Enamels give a solid coat of color that is rich and satiny in its texture. The range of colors is wide and manufacturers give explicit directions for securing any tint or shade desired. Of course the most satisfactory finishes are absolutely waterproof and can be washed without injury to gloss or color.—*East Bay Builder*.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.
AIR WASHERS
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.
ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

S. Libman, 629 College Ave., Pittsburgh, Pa.
Malia, Thos. J., 226-32 W. Mentor St., Phila.
Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.
New Jersey Cast Stone Co., Vineland, N. J.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.

Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.

Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

FIREPROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING-COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

GUARDS (Machine and Engine)

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HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.
Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

Simpson-Anderson Co., Widener Bldg., Phila.
Stokes, Packard, Houghton & Smith,
S. E. Cor. 6th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co., 2500 Duncan St., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

Whartenby, Harry A., 1823 Brandywine St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

LUMBER

Ketcham, Howard, 3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

MARBLE

Frank W. Butterworth, 1518 Walnut St., Phila.

MARBLE AND MOSAIC

Belf Bros. Co., 1923 Market St., Phila.
Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co., 433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

MASON BUILDER

D'Lauro, John, 7732 Ardleigh St., Phila.

METAL DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

METAL LATH

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

METERS

Phila. Meter Co., Real Estate Trust Bldg., Phila.

MILLWORK

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

PAVING BRICKS

Ketcham, O. W., 121 N. 18th St., Phila.

PHOTOSTATS

Weber, F., Co., 125 S. 12th St., Phila.

PILES

Foundation & Construction Co., 1320 Race St., Phila.

PLASTER (Colored)

California Stucco Products Co., 1316 Olive St., Phila.

PLASTER BOND

Keen Bros., Merchantville, N. J.

PLASTERERS

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

PORCH ENCLOSURES

Malia, Thos. J., 226-32 W. Mentor St., Phila.

RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

RADIATOR SHIELDS AND CABINETS

Acme Radiator Shield & Inclosure Co.,
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REFRIGERATORS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

REINFORCING BARS

Milton Mfg. Co., Milton, Pa.
Montgomery Iron & Steel Co., 2500 Duncan St., Phila.
Penn Steel Service Co., Fuller Bldg., Phila.

ROAD MACHINERY

Service Supply Corp., 20th & Venango Sts., Phila.

ROLL SCREENS

American Metal Weatherstrip Co., 2115 Diamond St.
Malia, Thos. J., 226-32 W. Mentor St., Phila.

ROOFING

John Nacey Co., 7254 Paschall Ave., Phila.
Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING MATERIALS

MacGarvie, James B., Magnolia, N. J.
John Nacey Co., 7254 Paschall Ave., Phila.
Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING SLATE

Chapman Slate Co., Bethlehem, Pa.

ROOFING TILE

Hood Tile Co., S. E. Cor. Chestnut & 13th Sts., Phila.
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Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

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Charles Warner Co., Union Bank Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

SAND BLAST CLEANING

Atlas Sand Blast Co., 4238 Market St., Phila.

SCAFFOLDING

Patent Scaffolding Co., 2835 Bridge St., Phila.

SCREENS (Fly)

Malia, Thos. J., 226-32 W. Mentor St., Phila.

SEPTIC TANKS

Philadelphia Septic Tank Co.,
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SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

SHEET METAL WORK (General)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

SHEETROCK (Wall Board)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

SHELVING (Steel)

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SOUNDINGS

Richard W. Jefferis Co.,
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STEEL SASH

Ridpath & Potter Co.,
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STONE

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STUCCO MANUFACTURERS

St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

California Stucco Products Co., 1316 Olive St., Phila.
Mayflower Stucco Co.,
Chestnut Hill, Phila., and Plymouth Meeting, Pa.

SURETY BONDS

Insurance Co. of North America, 1600 Arch St.
Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 6th and Walnut Sts., Phila.

Terra Cotta (Architectural)
Atlantic Terra Cotta Co., Otis Bldg., Phila.
Conkling-Armstrong Terra Cotta Co.,
1600 Arch St., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

Terra Cotta Sewer Pipe
Clausen, Wm. H., 27th and Diamond Sts., Phila.

Tile and Terrazzo Work
Belf Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Hood Tile Co., S. E. Cor. Chestnut and 13th Sts., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
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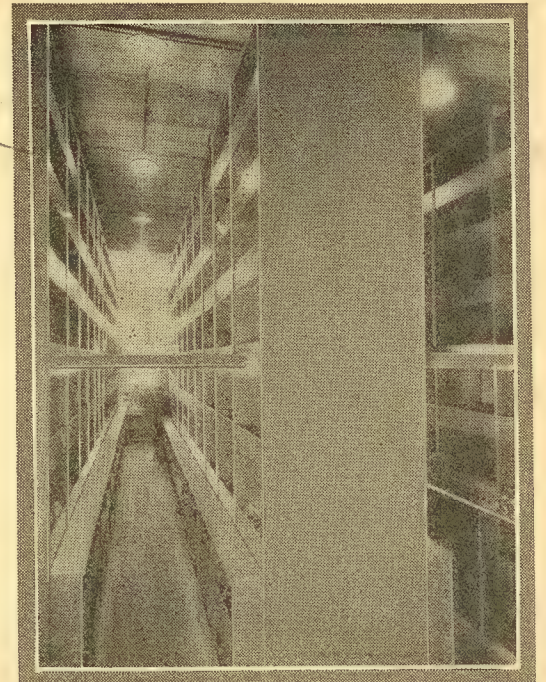
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March 6, 1929

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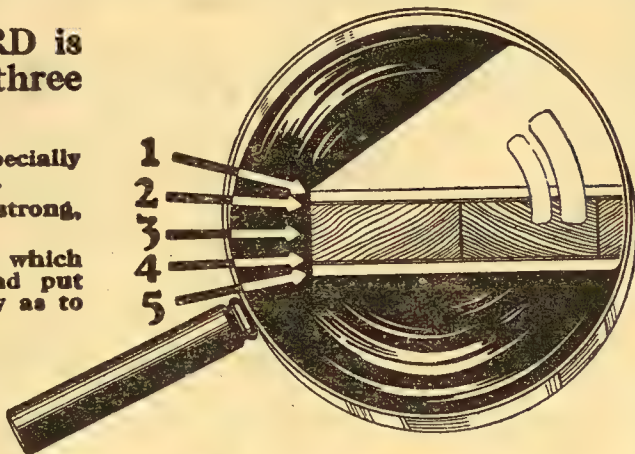
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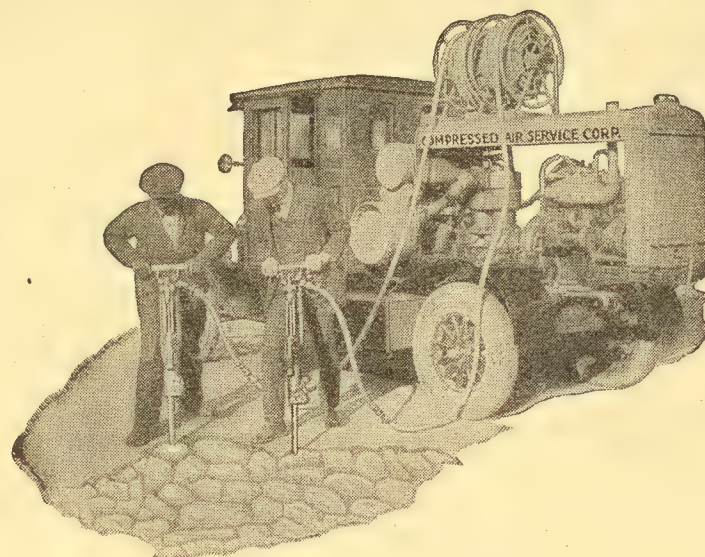
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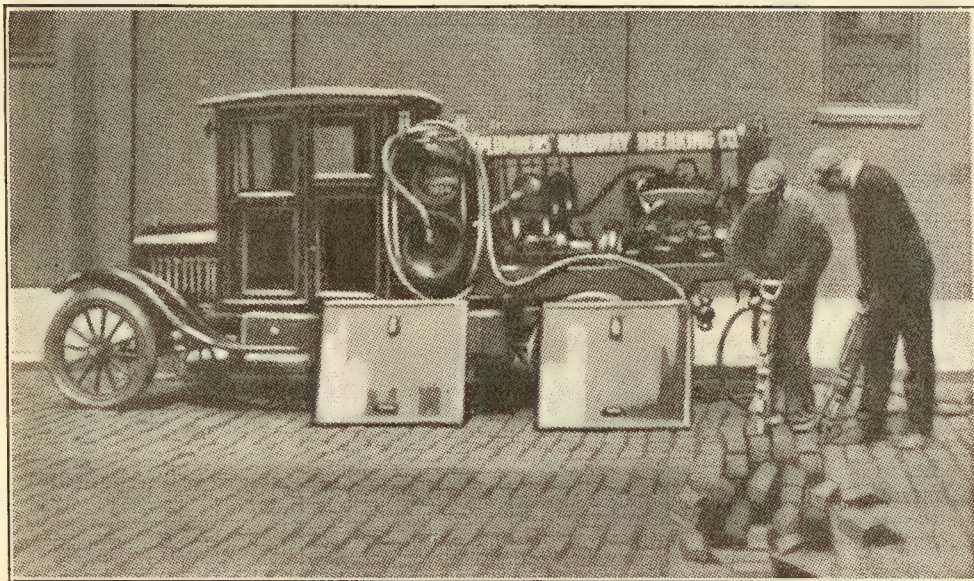
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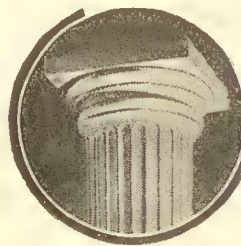
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Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 10

PHILADELPHIA
March 6, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY
BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (alts.), 915 Spruce street, Philadelphia. Architect, Benjamin Shulman, 1722 Arch street, Philadelphia. Owner, name withheld. Brick, 2 stories and basement, hot water heat, electric light, tile work, hardwood floors, plumbing. Plans in progress.

Freight House, Thirty-second and Walnut streets, Philadelphia. Engineers, United Engineers & Constructors, Inc., Broad and Arch streets, Philadelphia. Owners, Pennsylvania Railroad, 15 North Thirty-second street, Philadelphia. Engineers will build. Preliminary plans in progress.

Sunday School Building, Rhawn and Cunnard streets, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Bethany Baptist Church, Rev. August Ballback, 2112 Hennig street. Brick, steel, 2½ stories and basement, 60x45 feet, slate roof, oak and pine floors, excavation, steam heat, electric light, rolled steel sash, bond. Architect taking bids due March 8th.

Apartment House, 2116 Green street, Philadelphia. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, 2216 Green Street Corporation, on premises. Brick, 4 stories and basement, 54x150 feet, composition roof, oak and pine floors, steam heat, electric light. Architects taking bids due March 12th.

Stores (3), 25-27-29 East Cheltenham avenue, Philadelphia. Architect, Robert L. Gill, Jr., 5600 Germantown avenue, Philadelphia. Owners, B. B. Lister & Son, on premises. Demolition, excavation, waterproofing (Hydroseal), brick, hollow tile, Truseon waterproofing,

concrete, cement work, floor hardener, cast stone, steel and iron work, Barrett specification roof, roof ventilators (Star), plastering, stucco, painting, glazing, metal store fronts (Kawneer Co.), 1 story and basement, 70x51 feet. Architect taking bids.

Office Building, Sixteenth, Seventeenth, Pennsylvania Boulevard and Cuthbert street, Philadelphia. Architects, Graham, Anderson, Probst & White, 1417 Railway Exchange, Chicago. Owners, Pennsylvania Railroad, 15 North Thirty-second street, Philadelphia. Brick, limestone, steel, architectural terra cotta, reinforced concrete, 21 stories and basement, 395x108 feet, cement floors, waterproofing (Minwax), asphalt paving, membrane waterproofing, hollow tile, cork insulation, granite, composition roof, roofing tile, kalamein doors (Empire Fireproof Door Co. or equal), caulking, hollow metal doors and trim, weather stripping (Sager or equal), ornamental iron and bronze work, rolling steel shutters, iron stairs, fire doors, vault doors, hardware, carpentry and mill work, metal lath, plastering, acoustical treatment, art marble, marble work, terrazzo work, vitrolite, painting, glazing, plumbing, wrought iron pipe, brass pipe, steam heat, ventilation, electric work, elevators. Architects taking bids due April 1st.

Residence (alts.), Germantown, Philadelphia. Architect, J. L. Conaroe, Mutual Trust Building, Philadelphia. Owner, name withheld. Interior alterations, new bath room. Plans in progress. Ready for bids in one week.

School, Eleventh and Catherine, Philadel-

phia. Architect, Irvin T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, William Rowen, president; William Dicks, secretary, Nineteenth and Ludlow streets, Philadelphia. Plans will be ready for bidders about March 18th.

Apartment House, 6445 Greene street, Philadelphia, \$400,000. Architect, Charles Schaefer, 11 South Sixteenth street, Philadelphia. Owners, Colonial Apartments, Inc., 314 South Broad street, Philadelphia. Brick, steel, cast stone, 4 stories and basement, 145x200 feet, 48 suites, slag roof, hardwood and linoleum floors, 3 electric elevators, refrigeration and incinerator (electric), flagstone walks, vapor heat, electric light, tile work, metal lath, hollow metal skylights, fire and kalamein doors. Owners will build and are ready for sub-bids.

Church and Sunday School, Northeast Corner Broad and Venango streets, Philadelphia, \$175,000. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Trinity Reformed Church, Broad and Venango streets, Philadelphia. Plans in progress. Ready for bids in a few days.

Club House and Office Building, Northwest Corner Broad and Walnut streets, Philadelphia. Architects, Simon & Simon, Philadelphia-Fidelity Building, Philadelphia. Owners, Manufacturers' Club, T. F. Armstrong, president; F. V. Anderson, chairman of Building Committee, on premises. Stone, steel, 40 stories, 97x100 feet. Project approved.

Residences (24), Englewood, two blocks West of Frankford avenue, Philadelphia. Architect, E. Allen Wilson, 1600 Arch street,

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Philadelphia. Owner, Alfred Lechler, 4128 Castor avenue, Philadelphia. Brick, 2 stories, 15x42 feet, slag and slate roof, hardwood floors, cement floor, garage in basement, hot water heat, electric light, tile work, metal lath. Owner taking sub-bids.

Convention Hall, Vintage avenue, between University Museum and Commercial Museum, Philadelphia. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, City of Philadelphia, care of Honorable Mayor Mackey, City Hall, Philadelphia. Indiana limestone, granite, 225x300 feet, ornamental plastering, roof ventilators, automatic pumps, vacuum cleaner, bronze work, lighting, marble work, heating. Ready for bids about May 1st.

Service Station and Loft Building, Broad and Bristol streets, \$200,000. Engineers, H. G. Christman, 306 South Notre Dame avenue, South Bend, Indiana. Owners, Benedix Brake Service Co., R. P. Henderson, president, 3912 North Broad street, Philadelphia. Brick, steel, concrete, 2 stories and basement, 75x175 feet, slag roof, concrete floors, electric light. Plans about completed. Owners will take general bids around April 1st.

Contract, 213 South street to North of Girard avenue, Philadelphia. Architect, private plans. Owners, Department of City Transit, City Hall Annex, Philadelphia. Track laying, concrete work, ties, switches. Owners taking bids due March 14th.

Residences (6), 6202-12 Oakley street, Philadelphia, \$22,200. Architect, private plans. Owner, John Bauer, 4938 North Fairhill street, Philadelphia. Brick, 2 stories, 15x27 feet, hot water heat. Permit issued.

Apartment House, 3427 North Seventeenth street, Philadelphia, \$85,000. Architect, Alvin C. Bieber, 1520 Locust street, Philadelphia. Owner, Paul Kolber, North American Building, Philadelphia. Brick, 4 stories, 50x170 feet 4 inches, vapor heat, electric work, slag roof, tile work. Permit issued.

Garage, Northeast Corner Jasper and Westmoreland streets, Philadelphia, \$3,500. Architect, private plans. Owner, Albert Steiger, 515 Disston street, Philadelphia. Brick, 1

story, 33x120 feet, cement floors. Permit issued.

Residences (8), North side Allengrove, East of Rutland street, Philadelphia, \$52,000. Architect, private plans. Owner, H. S. Swope, 1001 Harrison street, Philadelphia. Brick, 2 stories, 18x29 feet, hot water heat, electric work, slag roof, oak and yellow pine floors. Permit issued.

Residences (10), 1728-46 South Fifty-third street, Philadelphia, \$44,400. Architect, private plans. Owner, Daniel E. Hogan, 6044 Columbia avenue, Philadelphia. Brick, 2 stories, 16x26 feet, hot water heat, electric work, oak and yellow pine floors, slag roof. Permit issued.

Apartment House, 506 South 41st street, Philadelphia. Owner, Nathan Litman, 45th and Pine streets, Philadelphia. Architect, private plans. Brick, steel 4 stories, 78 feet irregular. 54 apartments, electric light, steam heat, tile work. Owner will build and is taking sub-bids.

Department of Wharves, Docks and Ferries, Municipal Pier No. 4, South Wharves, R. Weglin, Director, Philadelphia. Low bidders: F. A. Cansuo & Son, 804 South 12th street, Philadelphia, \$48,710. B: Bulkhead, South Penrose Ferry Bridge Section 105: Triest & Earle, Real Estate Trust Building, Philadelphia, \$182,014.60. C: Bulkhead, West side, north of Penrose Ferry Bridge, Section 106: Triest & Earle, Real Estate Trust Building, Philadelphia, \$250,872. D: Bulkhead, West side, north of Passayunk avenue, Section 111: Harry H. Eyre, 1212 North Delaware avenue, Philadelphia, \$135,345. E: Improving and enlarging House of Correction: F. A. Canuso & Son, 804 South 12th street, Philadelphia, \$95,300. Substructure of Municipal Pier No. 80 South Wharves: McNichol Paving Co., 1923 Cherry street, Philadelphia, \$8,970.

Hosiery Mill, South side Indiana, East of 18th street, Philadelphia. Engineer, Julian Simshon, Broad and Girard avenue, Philadelphia. Owners, J. C. J. Strahan & Co., Inc., 389 5th avenue, New York. Reinforced concrete, 2 stories, 83x150 feet, slag roof, cement floors, plumbing, electric work. Plans in progress, will be ready for bids in one month.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Addition, Twenty-fifth and Westmoreland streets, Philadelphia, \$100,000. Architect, Clarence E. Wunder, 1520 Locust street, Phil-

adelphia. Owners, Rosenau Brothers, on premises. Reinforced concrete, brick, cast stone, steel, 2 stories and basement, 200x50 feet, cement floors, demolition, excavation, Hard-N-Tyte floor hardener, cement floors, demolition,

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excavation, steel sash, rolling steel doors (J. C. Wilson, Kernear or equal), fire doors (Penn Metal Co. or equal), kalamein doors (Norman Seton or equal), iron work, maple floors, hardware, slag roof, roof ventilators, skylights, hollow metal windows, plumbing, heating, elevator, sprinklers. Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia.

Luncheon Club, 28, 29, Mezzanine Floors, Fidelity-Philadelphia Trust Building, Broad and Walnut streets, Philadelphia. Architects, Simon & Simon, Fidelity-Philadelphia Building, Philadelphia. Owners, Fidelity Building Corporation, care of architect. Structural steel, reinforced steel, limestone, granite, brick work, miscellaneous iron work, bronze work, slag roof, carpentry and mill work, hollow metal doors, kalamein doors, plastering, cork floors, acoustical treatment, tile, marble, terrazzo work, rubber floors, painting, glazing, hardware, plumbing, sprinkler system, steam heat, electric refrigeration, electric work, elevator, dumb waiters, kitchen equipment. Contract awarded Irwin & Leighton, 1505 Race street, Philadelphia.

Residence, Montgomery avenue, South of Paper Mill road, Chestnut Hill, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Paul E. Sutro, East Thompson and Clearfield streets, Philadelphia. Stone, frame, 2½ stories and basement, 66x27 feet, wing 40x43 feet, shingle roof, oak and pine, cement floors, excavation, bluestone, flagstone, cement and concrete work, plumbing, brick work, soundproofing, metal lath, plastering, tile work, iron work, elevators, brass pipe (Anaconda), electric work. Contract awarded Barelay White Co., 22 North Thirty-sixth street, Philadelphia.

Alterations and Addition, 1717-19 Green street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard Estate, Stephen Girard Building, Philadelphia. Demolition, excavation, brick, concrete and cement work, terra cotta (National Fireproofing Co. or equal), carpentry and mill work, plastering, hardware, marble and tile work, plumbing, steam heat, electric work, brick work, waterproofing. Contract awarded J. N. Gill Construction Co., 1500 Chestnut street, Philadelphia.

Church (alts.), 5421 Germantown avenue, Philadelphia. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, St. Luke's the Evangelist Church, Rev. W. E. Conklin, 5411 Germantown avenue, Philadelphia. Bond, demolition, brick work, concrete work, structural steel, stone, limestone, carpentry and mill work, plastering, metal lath, painting, hardware. Contract

awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia.

Residence and Garage, Perkiomen Turnpike, West of Norwood avenue, Chestnut Hill, Pa. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, John S. Haug, 7814 Cresheim road, Philadelphia. Stone, 2½ stories and basement, 73x40 feet, hot water heat, electric light, metal lath, tile work, shingle roof, oak and yellow pine floors, plumbing, ornamental iron work. Contract awarded Fesmire Brothers, Huntingdon Valley, Pa.

Residence (alts.) and Porch (add.), Eighth and Kenilworth avenue, Oak Lane. Architect, W. Leshner Blithe, Public Ledger Office Building, Philadelphia. Owner, Thomas J. Carney, on premises. Stucco and frame, 4 columns, 2 stories, cement floors, new doorway, leaded glass, iron rails. Contract awarded William Johnston, 1606 Swain street, Philadelphia.

Retail Store, 1626 Chestnut street, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, S. F. Whitman & Son, 1316 Chestnut street, Philadelphia. Brick, 1 story, 20x150 feet (soda fountain and kitchen equipment reserved). Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia.

Stores (alts.), 6332 Woodland avenue, Philadelphia. Architects, The Penwood Co., City Center Building, Philadelphia. Owner, Penn Chabrow, on premises. Stucco, Arvon wall finish, leaded glass, bulk windows, vitrolite work (plumbing and heating reserved), terrazzo and linoleum floors. Contract awarded J. Marcellus, 1231 North Fifty-first street, Philadelphia.

Restaurant (add. and alt.), 5137-39 Market street, Philadelphia, \$10,000. Architect, private plans. Owners, Horn & Hardart Baking Co., 208 South Warnock street, Philadelphia. Brick, 1 story, 40x6 feet 10 inches, cement work, slag roof. Contract awarded Harry R. Rust, Inc., 19 South Eighth street, Philadelphia.

Gasoline Station, Twelfth and Porter and Moyamensing avenue, Philadelphia. Architect, private plans. Owner, D. B. McKimmine, on premises. Brick, 1 story. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia.

Store (alt.), 1520 Market street, Philadelphia, \$3,000. Architect, private plans. Owners, Walgreen Co., 1106 Chestnut street, Philadelphia. General interior alterations. Contract awarded Henry E. Baton, Inc., 1713 Sansom street, Philadelphia.

Residence (add.), 6115 McCallum street, Philadelphia, \$3,000. Architect, private plans. Owner, M. A. Lengert, on premises. Brick, 2 stories, 10x18 feet, yellow pine floors, slag

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roof. Contract awarded Charles T. Clark, Germantown and Allegheny avenues, Philadelphia.

Sales and Service Building, Northeast Corner Thirty-first and Master streets, Philadelphia, \$54,000. Architect, S. Barnett, Harrison Building, Philadelphia. Owner, Benjamin Bailey, 1501 Walnut street, Philadelphia. Brick, 2 stories, 100x300 feet, slag roof, cement floors, electric work. Contract awarded D. H. Gage, 1501 Walnut street, Philadelphia.

Residences (2), 5319-21 Oxford avenue, Philadelphia, \$10,000. Architects, private plans. Owners, J. Brown and A. Fink, 632 Land Title Building, Philadelphia. Brick, 2 stories, 16x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded Oxford Construction Co., 1208 North Broad street, Philadelphia.

Garage Fire Repairs, 1234 Bainbridge street, Philadelphia, \$4,800. Architect, private plans. Owner, Sara Lardner, Northwest Corner Thirteenth and Bainbridge streets, Philadelphia. Contract awarded Scheettman Brothers, 1924 North Marshall street, Philadelphia.

Residences (49), North side Dunlap, West of Fifty-seventh street, Philadelphia, \$147,000. Architect, private plans. Owner, M. Dorfman, 407 Lincoln Building, Philadelphia. Brick, 2 stories, 15x26 feet 8 inches, hot water heat, electric work, slag roof. Contract awarded Dunlap Corporation, 260 South Fifteenth street, Philadelphia.

Store and Storage, 2621 Germantown avenue, Philadelphia, \$35,000. Architect, Herman H. Kline, 709 Chestnut street, Philadelphia. Owner, H. N. Brenner, Bulletin Building, Philadelphia. Brick, 2 stories, 53 feet 2 inches x 110 feet, steam heat, oak and yellow pine floors, electric work, slag roof. Contract awarded Wolf & Sheffit, 3819 Poplar street, Philadelphia.

Mill, North side Cresson, West of Ridge avenue, Philadelphia, \$20,000. Architect, private plans. Owners, Wissahickon Plush Mill Co., on premises. Brick, 4 stories, 50 feet 11 inches x 62 feet, yellow pine floors, electric work, slag roof. Contract awarded Knox-Landers Co., 1132 Vine street, Philadelphia.

Residence and Garage, Germantown, Philadelphia, \$20,000. Architect, John W. Keyes, Otis Building, Philadelphia. Owners, Penrose R. Perkins, 6031 Market street, Philadelphia. Stone, 2½ stories, 28x45 feet; 16x30 feet, wood shingle roof, hardwood floors, cement work, hot water heat, electric light, plumbing, cement work. Contract awarded Samuel Harting & Son, 20 East Johnson street, Philadelphia.

Pennsylvania Construction News

Residence and Garage, Hilltop, Merion, Pa. Architect, Richard W. McCaskey, Otis Building, Philadelphia. Owner, William J. Cahill, care of Chandler & Rankin, Packard Building, Philadelphia. Brick, 2½ stories. Plans in progress.

Schools (3) (alts. and add.), Cornwells, Pa., \$150,000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board, Alvin T. Lippincott, Cornwells, Pa. Sketches drawn.

Residence, North Wales, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Otto S. Schlieske, North Wales National Bank, North Wales, Pa. Stone, 2½ stories, 26x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Dormitory, Reading, Pa. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Albright College, care of architects. Fireproof. Architects selected.

Church, Kutztown, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, John R. Gouser Memorial Church, Fairview Cemetery Association, Kutztown, care of architect. Stone, 1 story, 35x65 feet, slate roof, tile floors, hot water heat, electric light, tile, marble. Plans in progress.

High School, Trevorton, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Zerby Township School Board, Mr. Bigman, secretary, Trevorton, Pa. Brick, concrete, steel, 2 stories and basement, 70x125 feet, 60x120 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, waterproofing, ornamental iron, iron stairs, bond, fire doors, steel lath (plumbing, heating and electric separate). Plans in progress.

Church, York, Pa. Architects, Witman & Royer, 36 East Market street, York, Pa. Owners, St. Peter's Lutheran Church, Rev. James H. Goss, 946 North George street, York, Pa. Brick, stone, steel, 1 and 2 stories, 78x103 feet, slate roof, maple floors, vapor heat, electric light, rolling curtains. Plans in progress.

High School (alts.), Quakertown, Pa., \$4,000. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Quakertown Borough School Board, Dr. C. W. Moyer, secretary, Quakertown, Pa. Brick, 2 stories, interior alterations and stairway. Architect selected.

Residences (2), Cynwyd, Pa. Architect, John L. Conelys, Drexel Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 29x47 feet, 60x31 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Church, Chestnut, between Heather and Kent road, Upper Darby, Pa. Architect, Stanford B. Lewis, 1713 Sansom street, Philadelphia. Owners, First Church of Christ Scientist, John M. Tatum, 6235 Chestnut street, Philadelphia. Stone or brick, 2 stories. Plans in progress. Details undecided.

High School, Shippensburg, Pa. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owners, Shippensburg School Board, S. B. Fulton, Shippensburg. Architects selected.

Residences (3), Lansdowne, Pa. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Philip Klaus, 1411 Rigby avenue, Lansdowne, Pa. Stone, brick, frame, 2½ stories, 22x35 feet, garage, 1 story, 10x20 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for sub-bids.

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Residences (8), Pennwyne, Pa. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, McWilliams & Maloney, Overbrook Hills in Merion, Pa. Frame, stucco, stone foundations, 2 stories, 16x42 feet, creodipt shingle roof, hardwood floors, central heat, electric light, tile and marble work, Modernistic homes. Owners taking sub-bids.

Store and Apartments (2) (alts. and add.), Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Elmer Fredericks, Souderton, Pa. Brick, 2 stories and basement, 16x30 feet, hot water heat, electric light, built-up roof, pine floors. Architect will be ready for sub-bids in about one week.

Residence, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, name withheld. Brick, 2½ stories, 26x38 feet, slate roof, hardwood floors, electric light, tile work. H. H. Mininger, Souderton, will build.

Twin Residence and Garage, Pennwyne, Pa. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, McWilliams & Maloney, Merion, Pa. (Overbrook Hills in Merion). Brick, stone, frame, 2 stories, 16x42 feet, creodipt shingle roof, hardwood floors, central heat, electric light, tile and marble work, detached and basement garages. Owners taking sub-bids.

Residence and Garage, Oak Lane Park, Pa. Architect, Albert Dobbins, 1718 Cherry street, Philadelphia. Owner, E. J. Loesche, care of architect. Cinder block, stucco, 2½ stories, slate roof, hardwood floors, electric light (plumbing and heating reserved). Ready for bids in a few days.

County Garage and Storage, Central Heating Plant, Media, Pa. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Brick, 2 stories, 85x130 feet, 2 stories, 50x75 feet, concrete built-up asbestos roof, residence (alts. and add.), brick, 2½ stories, 15x30 feet, slate roof. Plans about completed. Ready for bids in two weeks.

Residence, Hartranft Tract, Norristown, Pa. Architect, H. Gordon McMurtrie, 1321 Arch street, Philadelphia. Owner, Brion Detwiler, Norristown, Pa. Brick, 2 stories, 26x37 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work, enclosed porches. Owner will take sub-bids.

Bungalow, Akron, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, P. S. Pfautz, Akron, Pa. Brick, 1½ stories, 37x52 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath. Owner will take sub-bids.

Single Residences (3), Cynwyd, Pa. Architect, private plans. Owner, Robert M. Adam,

High street and Chester pike, Sharon Hill, Pa. Stone, clapboard, shingle, 2½ stories, 30x40 feet, two-car garage, shingle roof, hardwood and cement floors, hot water heat, electric light, tile work. Owner ready for sub-bids due as soon as possible.

Factory (add. and alts.) to Office and Printing Plant, York, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, York Printing Co., 10 South Pershing street, York, Pa. Brick, steel, 1 story, irregular size, wood block floors, electric light, general interior alterations, skylights. Owner subletting.

High School and Gymnasium, Sellersville and Perkaspie, Pa. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owners, Joint School Boards of Sellersville and Perkaspie, Mahlon Keller, secretary, 8 North Seventh street, Perkaspie, Pa. Brick, stone, 2 stories and basement, 150x85 feet, 40x60 feet, composition roof, maple floors, safety treads (heating, plumbing and electric separate). Plans about ready for bids.

Twin Residences (32), Eagle road, Manoa, Pa. Architect, private plans. Owner, Charles Wilson, 133 Eagle road, Manoa, Pa. Brick, concrete, 2½ stories, 17x38 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, garage 10x18 feet. Plans in progress. Owner will build and will take sub-bids in one month.

Residences (36), Woodlawn road, South Springfield, Pa. Architect, private plans. Owners, Springfield Manor Construction Co., care of Samuel Caplan, 3015 Ridge avenue, Philadelphia. Stone and brick, 2½ stories and basement. 16x37 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owners will build.

Fraternity House, State College, Pa. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, Delta Sigma Chi Fraternity, State College, Pa. Plans completed. Architect ready for bids.

Laundry Building, Bloomsburg, Pa. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Bloomsburg State Teachers' College, Dr. F. B. Haas, Bloomsburg, Pa. Brick, steel, 1 story, 85x36 feet, slag roof, concrete floors, steel sash. Owners ready for bids.

Teachers' Training School, Bloomsburg, Pa. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Bloomsburg State Teachers' College, Dr. F. B. Haas, Bloomsburg, Pa. Brick, stone, 2 stories, 80x120 feet, slate and composition roof, maple floors, metal lath. Owners ready for bids.

Training School (State Motor Patrol), Harrisburg, Pa., \$80,000. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa. Brick, limestone, terra cotta, 2 stories, 136x102 feet, composition roof, reinforced concrete floors, hollow tile, dumb elevators, roof ventilators, metal weather strip, waterproofing and dampproofing, bluestone, incinerators, area gratings, wrought iron pipe, brass pipe, ornamental iron, steel stairs, bond, skylights. Owners ready for bids.

School Building, Danville, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Catholic Slovak Girls' High School, care of architect. Stone, steel, 2 and 3 stories, 38x400 feet, slate roof, maple and terrazzo floors, safety treads, dampproofing, flagstone, ornamental iron, soundproofing, iron stairs, bond, fire doors, steel sash, tile and farble, metal lath (heating, plumbing and electric separate). Architect ready for bids.

Residence, Fox Chase, Pa. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, name withheld. Brick, stucco, 2½ stories, 27x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due March 15th.

Hotel (Abraham Lincoln) and Garage, Fifth and Washington streets, Reading, Pa. Architect, W. L. Stoddart, 50 East Forty-first street, New York City. Owners, Reading Hotel Corporation, Chamber of Commerce, Reading, Pa. Reinforced concrete, brick, steel, limestone, 15 stories and basement, 154x100 feet, garage, 2 stories and basement, 154x100 feet, concrete roof, steel tank, architectural terrao cotta, cast stone, Straub cement block,

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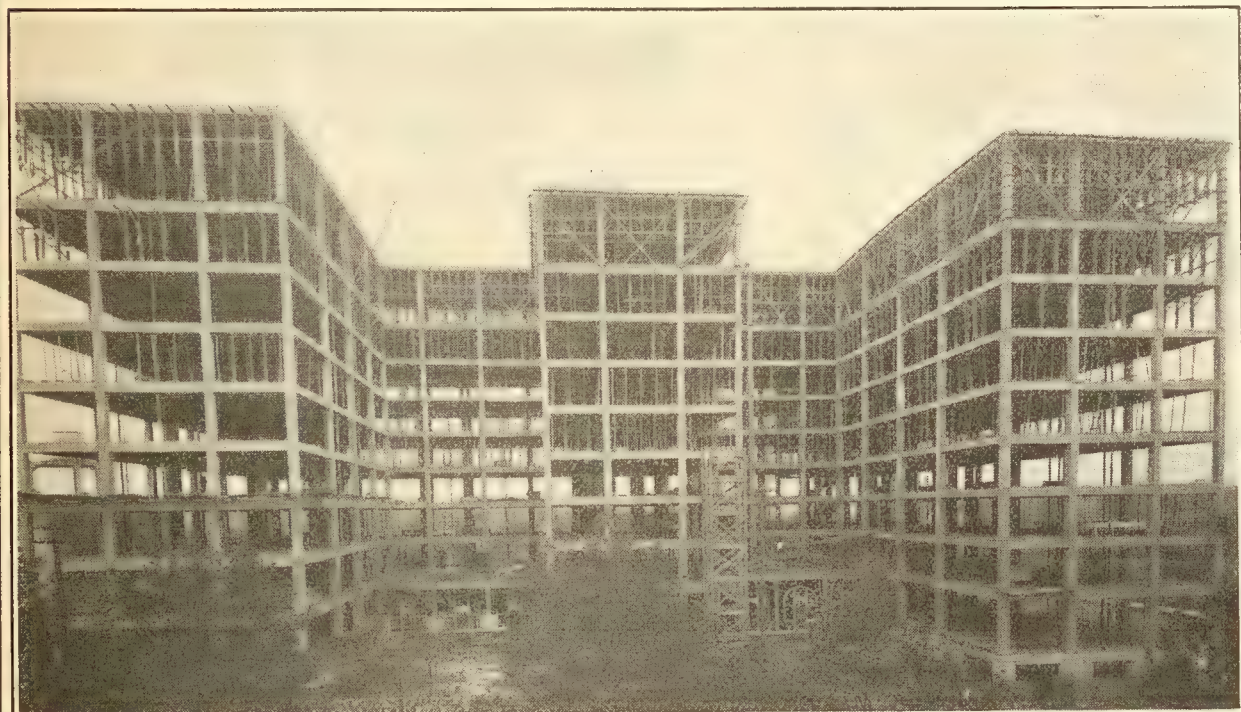
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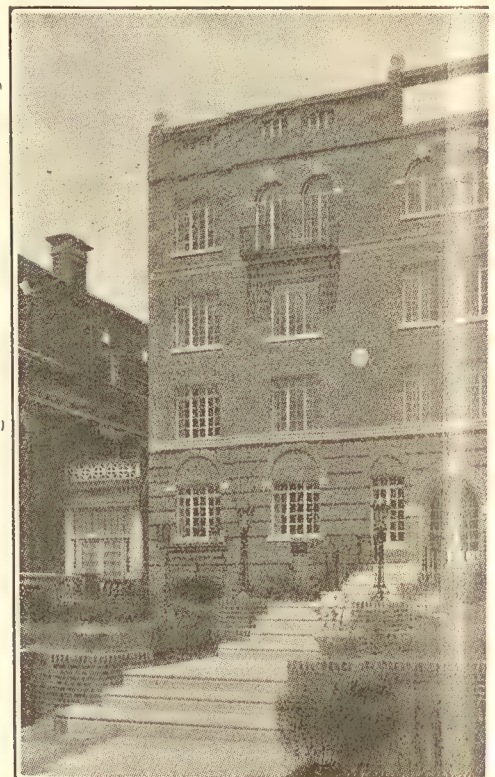
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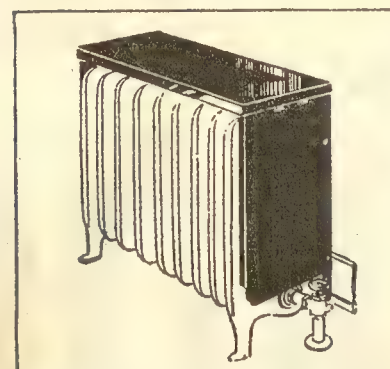
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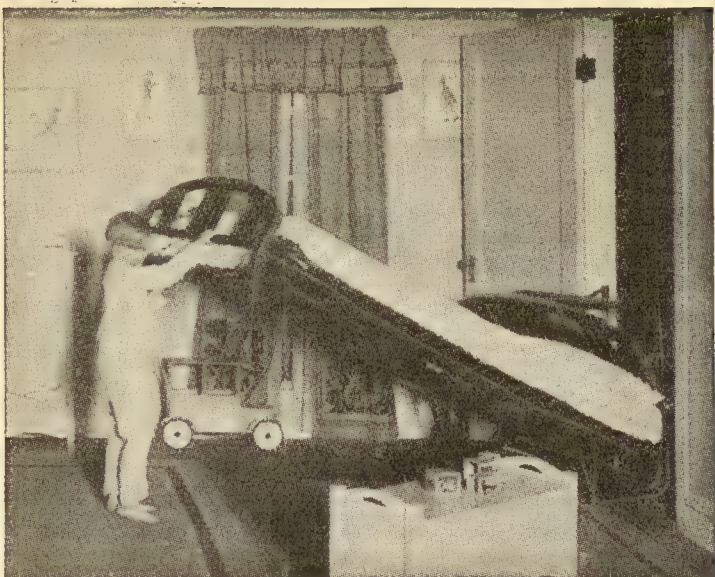
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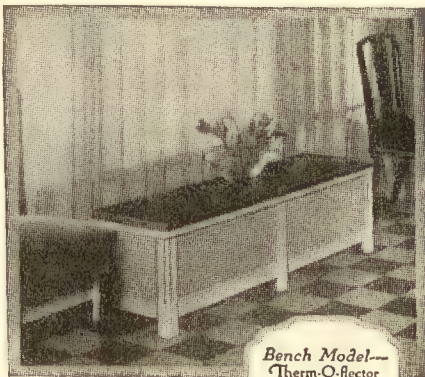
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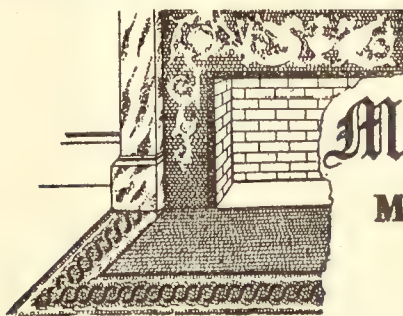
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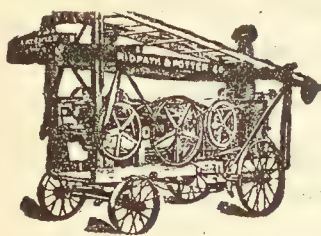
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PARK 4147-4148

bond, cement floors, excavation, integral waterproofing (A. C. Horn or equal), dampproofing, slag roof, steel gratings and doors, steel partitions, bronze work, steel sash, elevator enclosures, hollow steel doors and trim, imitation caenstone, ornamental plaster, tile, marble, terrazzo, linoleum floors, oak floors, tile roof. Owners taking bids due March 15th.

Church and Sunday School, Swarthmore, Pa. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, First Church of Christ Scientist, Swarthmore, Pa. Stone, steel, 1½ stories and basement, 83x35 feet, bond, excavation, flagstone (Ridgeway or Robinson), reinforced concrete, cement floors, limestone, dampproofing, iron work, slate roof, fire doors, single roof (alternate), caulking, carpentry and mill work, metal lath, plastering, pine floors, marble and tile work, electric work, plumbing, brass pipe (American Tube Works), wrought iron pipe (Byers or Reading), vacuum, vapor heating, oil burners, boiler (Hart & Crouse), radiators (American or U. S. Radiator). Architects taking bids due March 12th.

High School Cafeteria (alts. and add.), Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Reading School Board, Oscar B. Heim, secretary, Eighth and Washington streets, Reading, Pa. Kitchen and cafeteria equipment. Owners taking bids.

School, West Hamburg, Pa. Architects, Black & Black, 600 North Second street, Harrisburg, Pa. Owners, Tilden Township School Board, G. C. Keishner, secretary, Berne, Pa. Brick, steel, 1 story, 60x70 feet, slag roof, maple floors (heating, plumbing and electric separate). Owners taking bids due March 8th.

Apartment House, Eleventh and Main streets, Darby, Pa. Architect, T. B. Lippincott; Associate, F. H. Price, Jr., 204 South Forty-first street, Philadelphia. Owner, name withheld. Brick, steel, terra cotta, 6 stories, 115x130 feet, slag roof, 3 elevators, linoleum floors, steam heat, electric light, tile and marble work, rolled steel sash. Architect taking sub-bids and general bids due March 12th.

School (alts. and add.), Paxtang, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Paxtang Borough School Board, D. E. Crosley, Paxtang, Pa. Brick, concrete block, steel, second story add., 35x107 feet, composition roof, maple and pine floors, roof ventilators, slate boards, wardrobes. Owners taking bids due March 8th.

New Rectory and Addition to Chapel, Southeast Corner Eleventh and Lincoln avenue, Prospect Park, Pa. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, St. James' Church, Prospect Park, Pa. Stone, stone tile, 2½ stories and basement, 40x32 feet, bond, excavation, bond, stone tile (Penn-Jersey Stone Tile Co.), stone foundations, Mastertex paint, precast stone (Penn Jersey, Formigli or equal), flagstone, steel and iron work, carpentry and mill work, oak and pine floors, casement sash (J. S. Thorn or Lenco), hardware (allowance \$575), plastering, metal lath, painting, glazing, electric work, slate roof, tin roof, composition

roof (Barrett's), plumbing, steam heating, boiler (American Radiator Co.), radiators (American or equal), linoleum floors. Architect taking bids due March 8th.

Factory and Administration Building B, Lansdale, Pa. Architects, Franklin & Conner, Lansdale, Pa. Owners, Franklin Pottery Co., on premises. Brick, steel, 2 stories and basement, 500x80 feet, 120x68 feet, bond, excavation, reinforced concrete work, Lapitolith (L. Sonneborn & Son), concrete floors, screens, shades, steel stairs, awnings, steel sash (Lupton), steel doors (Lupton), gypsum, slate, slag roof, carpentry and mill work, weather stripping (Higgins or Chamberlain), kalamein doors, dumb waiter (Energy), caulking, metal lath, dampproofing (Toch Brothers), Sany-metal toilet partitions, sprinkler system, electric work, plumbing, wrought iron pipe, brass pipe, Hoffman controlled heating, boiler (Erie City Iron Works), radiators (Central Radiator Co., Lansdale, Pa.), oil burners. Owners taking bids due March 7th.

Turntable, North of Lancaster, Pa. Engineer, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Railroad Company, Twelfth and Market streets, Philadelphia. Excavation, concrete foundations, lumber and ties, bond, concrete circle wall, 85 feet. Owners taking bids due March 8th.

Fire House and Hall, Flourtown, Pa. Architect, private plans. Owners, Flourtown Fire Co. (Whitemarsh 1809), George Bodie, chairman; W. C. Smith, in charge, on premises. Brick, steel, 1 story and 2 stories, 122x50 feet, asbestos or paper shingle roof, cement floors, steam heat, electric light, metal lath. Deposit, \$10. Owners taking bids due March 11th.

Store (alts. and add.), Lewistown, Pa. Architects, Witman & Royer, 36 East Market street, York, Pa. Owner, Harris Smith, Market and Dorcas streets, Lewistown, Pa. Brick, steel, 1 story, 30x114 feet, built-up roof, maple floors, oil burner, steam heat, electric light, metal lath, tile, marble, plate glass. Owner taking bids.

Warehouse, Red Lion, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, Charles A. Rost Co., Charles and High streets, Red Lion, Pa. Brick, concrete, 4 stories and basement, 80x115 feet, asphalt built-up roof, cement, pine and maple floors, freight elevators, roof ventilators, metal window guards, metal weather strip, waterproofing, cast stone, cinder concrete block, soundproofing, iron stairs, fire doors, steel sash and skylights, electric work. Architect taking revised bids due March 8th.

Central Office Building, Southeast Corner Market and Walnut streets, West Chester, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, Nineteenth and Arch streets, Philadelphia. Brick, limestone, steel, 2 stories and basement, 81x48 feet, excavation, bond, reinforced concrete, demolition, bluestone, hollow tile work, iron gratings, copper-covered doors, slag roof (Barrett or equal), metal lath, plastering, marble, tile and terrazzo work, painting, glazing, hardware, plumbing, Anaconda copper pipe, steam heat, Rome brass radiators, electric work. Architect taking bids due March 12th.

Residence and Garage, Chestnut Hill, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Frederic Rosengarten, New and Prospect avenues, Chestnut Hill, Pa. Stone, steel, 2½ stories, 115x34 feet, wing 20x49 feet, bond, excavation, stone foundations, waterproofing, caulking, brick work, cement floors, linoleum, flagstone, soapstone, tile work, marble work, area gratings, vault doors, metal frames and

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Sidewalks and Repairs, Prospect Park, Pa. Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Prospect Park, A. D. Forrest, Prospect Park, Pa. Owners taking bids due March 14th. Certified check, \$100.

Church, Olyphant, Pa., \$125,000. Architect, Alex. Pnawdzik, 821 Moosic street, Scranton, Pa. Owners, Holy Ghost R. C. Church, Rev. Jos. J. Dulik, 120 Willow street, Olyphant, Pa. Preliminary plans in progress.

Hosiery Mill, Bloomsburg, Pa. Architects, The Ballinger Co., 12th and Chestnut streets, Philadelphia. Owners, Bloomsburg Hosiery Mills, Bloomsburg, Pa. Brick, steel, 1 story, 61½x82 feet, sawtooth roof, cement floors. Architects taking bids due March 12th at noon.

Residence and Garage, near West Chester, Pa. Architect, Edmund Gilchrist, 1618 Latimer street, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement. Architect taking bids due March 14th.

Office, 69th street and Rockland avenue, Upper Darby, Pa. Architects, Tunis & Baker, 1600 Arch street, Philadelphia. Owners, Keystone Automobile Club, J. M. Weeks, President, Shubert Building. Brick, stone, stucco, 1 story and basement, 40x41 feet, slag roof, cement floors, outside tile, structural steel, plate and leaded glass, painting, hot water heat, millwork, oil burners, electric light, cinder concrete block. Architects building and sub-letting all contracts.

Parochial School, Yeadon, Pa. Architects, Folsom, Stanton & Graham, 10 South 18th

street, Philadelphia. Owners, St. Louis R. C. Church, Rev. T. J. Burke, Yeadon, Pa. Brick, 3 stories, stone. Ready for bids in a month.

Residences (24), Hathaway Lane, Merwood, Pa. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Henry J. McLean, 521 South 52nd street, Philadelphia. Preliminary plans in progress, details undecided.

Pennsylvania Contracts Awarded

Residence and Garage, Rydal, Pa. Architect, J. A. Bowers, 466 Queen Lane, Philadelphia. Owner, J. Scanlon, care of Hess Bright, Front and Erie avenue, Philadelphia. Stone, 2½ stories and basement, 27x42 feet, slate roof, oak and pine floors, hot water heat, electric light, bond, ornamental iron work. Contract awarded Henry Specht, Willow Grove, Pa., not signed.

Chapel and School Building, Lewis and Emerson avenues, Stonehurst Hills. Architects, Hoffman-Henon, Finance Bldg., Phila. Owners, St. Cyril's R. C. Church, Rev. Edmond O'Shea, 7101 Emerson avenue, Stonehurst Hills, Pa. Stone, Indiana limestone, steel, 2 stories and basement, 146x56 feet, excavation, demolition, bond, concrete and cement work, floor hardener (Penetrite or equal), structural steel, iron work, steel and iron work, waterproofing (Hydroseal or equal), cinder block (Straub), carpentry and mill work, pine floors, caulking (Sterling or equal), hardware, metal toilet stalls (Sany-metal or equal), composition roof (Barrett or equal), kalamein doors, steel sash, casement windows (Thorn or equal), slate roof (Penn Blue Black), Toncean ventilators, metal lath, plastering, tile work, painting, glazing, Foxcroft monolithic finish, Bethayes Buff stone. Contract awarded Conneen Construction Co., 770 Schuylkill avenue, Philadelphia.

Residence (alts. and add.), Northwest Butler pike, one mile Southwest of Stenton avenue, Whitmarsh Valley, Pa. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, Francis Boyer, on premises. Stone, 2 stories, 15x16 feet, demolition, excavation, bond, stone walls, mill work, shingle roof, oak and pine floors, linoleum, linoleum tile floors, mill work, shingle roof, oak and pine floors, tile and marble work, metal lath, plastering (screens and weather strip allowance, \$416), plumbing, sewage disposal plant, septic tanks, brass pipe (Anaconda) (heating, electric, refrigeration, rading reserved). Contract awarded C. C. Eddleman, 1627 Sansom street, Philadelphia.

Bell Telephone Exchange, Lewistown, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, F. L. Briggs, Harrisburg, Pa. Brick, reinforced concrete, steel, 2 stories and basement, 81q76 feet, bond, cement boors, excavation, fire doors, iron stairs, slag roof (Barrett or equal), Campbell metal windows or equal, marble, tile

and terrazzo work, hardware, plumbing, steam heat, electric work. Contract awarded John N. Gill Construction Co., 1500 Chestnut street, Philadelphia.

Residences (4), St. David's, Pa. Architect, John L. Conneys, Drexel Building, Philadelphia. Owner, William C. Meade, Yeadon, Pa. Stone, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, hot water heat, electric light. Contract awarded Harmer Construction Co., Wayne, Pa.

Residence (alts. and add.), and Solarium of Greenhouse Construction, Wynnewood, Pa. Architect, John L. Conneys, Drexel Building, Philadelphia. Owner, name withheld. Solarium, 45x22 feet, shingle roof, vapor heat, electric light, tile and marble work, lre place, wrought iron work, interior marble, imitation stone, brick, stucco, iron floor grills and register grills, cut stone. Plans in progress. Grover Thompson, Cynwyd, Pa., will take sub-bids in two weeks. Heating awarded to Galligan Brothers, 716 South Fifty-first street, Philadelphia, Pa.

Store, 632 Center street, Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, E. S. Youse Co., Inc., 46 North Fifth street, Reading, Pa. Brick, 2 stories and basement, 200x32 feet, built-up roof, maple floors, hollow tile, copper work, plate glass, skylights, tile work, vapor vacuum heat, electric light. Contract awarded C. H. Schlegel, 528 Washinton street, Reading, Pa.

Store Building, Seventh and Penn streets, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Imber Brothers, 747 Penn street, Reading, Pa. Fireproof, 3 stories and basement, 50x200 feet, slag and copper roof, hollow tile, freight and passenger elevators, safety treads, tile, marble, steel sash, kalamein and steel doors, bond, plaster, bronze grills. Contract awarded C. H. Schlegel, 528 Hashington street, Reading, Pa.

Hosiery Mill, Willow Grove, Pa. Engineers, William P. Cameron Engineering Co., Packard Building, Philadelphia. Owners, Zabel Full Fashion Hosiery, care of engineers. Brick, east stone, 1 or 2 stories, 58x150 feet; gypsum slag roof, cement floors, septic tanks, plumbing, steam heat, oil burners, electric light, rolled steel sash. Contract awarded W. P. Cameron Engineering Co., Packard Building, Philadelphia.

Garage and Chauffeur's Quarters, Ardmore, Pa. Architect, R. Brognard Okie, 308 South Smedley street, Philadelphia. Owner, R. H. Knode, Land Title Building, Philadelphia. Stone, 1½ stories, 20x30 feet, shingle roof, cement and pine floors, hot water heat, electric light. Contract awarded C. C. Eddleman, 1713 Sansom street, Philadelphia.

Residence and Garage, Drexel Park, Pa. Architect, Harold Edward Williams, Drexel Hill, Pa. Owner, Mrs. Lillian Russell, Drexel Park, Pa. Brick, frame, 2½ stories and basement, 35x50 feet. Contract awarded B. J. Campbell, 939 Flanders road, Philadelphia.

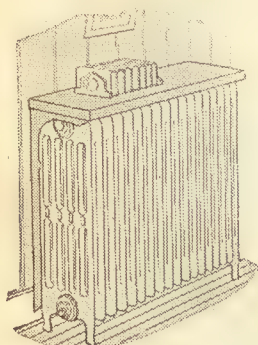
Store (alts.), Seventh and Penn streets, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Gondheim Brothers, on premises. General interior alterations (also exterior). Contract awarded C. H. Schlegel, 528 Washington street, Reading, Pa.

Residence (alts.), Villa Nova, Pa. Architects, Willing, Sims & Talbutt, 128 South Eighteenth street, Philadelphia. Owner, Frederic R. Dayton, on premises. Bond, stone masonry, cement work, carpentry and mill work, oak and pine floors, linoleum floors (Armstrong), metal lath, plastering, painting, glazing, plumbing (alts.); heating (alts.), electric work. Contract awarded H. H. Burrell & Son, 206 South Quince street, Philadelphia.

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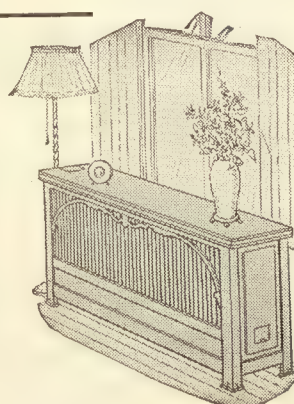
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Church Building (fire repairs), Wyncote, Pa. Owners, All Hollow Church, Rev. C. C. Silvester, Greenwood and Bent road, Wyncote, Pa. Roof repairs, interior renovation, new organ, etc. Contract awarded Roy Randall, Jenkintown, Pa.

Garage, Pottsville, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Good Brothers, Pottsville, Pa. Contract awarded Fred McPeak, Reiglesville, Pa.

New Jersey Construction News

Residence, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, Joseph Lavine, care of architect. Brick, 2½ stories, 29x36 feet, slate roof, hardwood floors, hot water heat, electric light, oil burner, tile work, wood casements. Architect taking bids due March 7th.

Garage, Atlantic City, N. J. Architect, J. T. Windrim, 1201 Chestnut street, Philadelphia. Owners, Bell Telephone Company of New Jersey, Atlantic City, N. J. Brick and stone. Plans in progress.

School (add.), Barrington, N. J., \$35,000. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, School Board of Barrington, Edward M. Oliver, president, Barrington, N. J. Brick, 2 stories, 40x60 feet, black slate roof, reinforced concrete, cement and maple floors, radiation, plumbing, electric work, bell system, oil burners, concrete block backing. Architect will be ready for bids in about one month.

Store and Apartment (add. and alts.), White Horse Pike and Clinton avenue, Had-don Township, N. J. Architect, J. C. Jefferis, 312 Market street, Camden, N. J. Owner, Oliver Mengle, Audubon, N. J. Brick, 2 stories, 30x30 feet add., slag roof, oak floors, electric light (heating reserved). Owner ready for bids.

High School, Glassboro, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, Dr. M. J. Luffbary, Glassboro, N. J. Bond, excavation, 3 stories and basement, 163x53 feet, two wings, 138x55 feet (plumbing, heating, electric separate), reinforced concrete, gypsum slab roof, cement floors (Master Builders' Mastermix), hollow tile, plaster bond, waterproofing, dampproofing, composition roof, iron work, area gratings, Kerlow steel flooring, caulking (EvAir Tight Caulking or equal), slate roof, maple floors, terrazzo, flagstone (Robinson dumb waiter, Enerey elevator or equal), metal door and trim (Reliance fireproofing doors), rolled steel sash (D. Lupton or equal, iron pipe (Byers or equal), ventilators (Royal or equal), Coatesville boiler. Owners taking new bids due March 11th.

Country Club (alts.), Riverton, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owners, Riverton Country Club, on premises. General alterations. Architect taking bids due March 9th.

Residence, Moorestown, N. J. Architect, William Macy Stanton, Land Title Building, Philadelphia. Owner, name withheld. Architect taking bids due March 8th.

Dormitory, Colony for Feeble Minded, New Lisbon, N. J. Architects, Division Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, State House, Trenton, N. J. Reinforced concrete, steel. Owners advertising for bids due March 14th.

Dairy and Pen Barn, Colony for Feeble Minded, New Lisbon, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions

and Agencies, State House, Trenton, N. J. Owners advertising for bids due March 14th.

Sewage Treatment Plant (alts. and add.), Audubon, N. J. Engineer, Marshall M. Hammon, Audubon, N. J. Owners, Board of Commissioners, Borough of Audubon, H. K. Lawrence, Borough Clerk, Audubon, N. J. Owners taking bids due March 19th at 8.30 P. M. Certified check, \$5,000. Deposit, \$50, refunded.

Senile Building, Greystone Park, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Trenton, N. J. Low bidders: E. Millimet, 988 Bergentine avenue, Union City, N. J., \$199,600; Hugh Montague & Son, Jersey City, N. J., \$201,600. Plumbing, Jaehnig & Peoples, Newark, N. J., \$15,723. Heating, George J. Robin, Plainfield, N. J., \$12,549. Electric, Walter Coleman, Jersey City, N. J., \$12,896.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Route 25 (Route 1 Extension), Sec. 20, Contract 23, from Grove street to City Line at Edgar road, Elizabeth, Union County, N. J. Clearing of site, grading, paving, finished surface concrete pavement, curbs, sidewalks, sewers, etc. Owners taking bids due March 18th at noon. Deposit, \$10. Certified check, 10 per cent.

Bridge, over Alexauken Creek on Route 29, Hunterdon County, N. J. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Concrete, reinforcing steel, structural steel, asphalt block paving. Deposit, \$10. Certified check, 10 per cent. Owners taking bids due March 18th at noon.

Substructure of Bridge, across Haikensack River at Secaucus, Bergen and Hudson Counties, N. J., Route 3. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Lower bidders: Allan N. Spooner & Son, North River, New York, \$501,869.30.

New Jersey Contracts Awarded

Residence and Garage, 29 North 36th street, Camden, N. J., \$7,500. Architect, private plans. Owners, St. Paul's Evangelical Lutheran Church, Camden, N. J. Brick, and block, 2 stories, 24x28 feet, slate surface, shingle roof, hot water heat, electric light. Contract

awarded Jungalans Bros. & Kane, 123 North 39th street, Camden, N. J.

Alterations, 201 Federal street, Camden, N. J., \$2,700. Architect, private plans. Owner, W. Slobodzian, 201 Federal street, Camden, N. J. New flush windows, interior alterations, iron cellar door. Contract awarded John Witkowski, 4 Narberth Terrace, Collingswood, N. J.

Schools (4), Colonial Manor, Verga, Mantua Terrace and Thorofare, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Board of Education, West Depford Township, J. J. Cundy, Verga, N. J. Excavation, reinforced concrete, cement floors, brickwork, plaster, bond, caulking, waterproofing, cast stone, carpentry and millwork, Warren Ehret slag roof, ventilators, kalamein doors, metal toilet partitions, iron, steel, iron stairs, metal weatherstrip, metal lath, metal ceiling, yellow pine floors, 1 story and basement, 132x32 feet; 1 story and basement, 77x67 feet; 1 story and basement, 96x30 feet; 1 story and basement, 65x77 feet. Contract awarded Geo. Bachman, 19 North 30th street, Camden, N. J., \$104,425. Plumbing to Harry Knecht, Collingswood, N. J., \$10,830. Heating to Baldwin Ventilating Co., 1509 Arch street, Philadelphia, \$14,725. Electric to Chas. S. Wright, 2182 Federal street, Camden, \$5,317.

Sales and Service Building, Bridge Boulevard near Federal street, Camden, N. J. Architect, E. A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Charles Kahn, Southeast Corner Seventeenth and Chestnut streets, Philadelphia. Lessees, Camden Motor Co., 528 Market street, Camden, N. J. Lessees, Cramer & Myers, Inc., 780 Wright avenue, Camden, N. J. Reinforced concrete, brick, steel, Indiana limestone, 2 stories and basement, 55x131 feet, demolition, bond, excavation, stone foundations, concrete foundations, concrete floors, waterproofing (Ironite), hollow tile, caulking, granite (Deer Island), waterproofing (Aquabar), Briar Hill stone, aquia stone, iron work and ladders, iron stairs, toilet room ventilators, rolled steel windows (Detroit steel or equal), casement windows (Detroit Steel or equal), concrete roof slab, gypsum and slag roof, rolled steel skylights (J. S. Thorn Co.), steel toilet partitions (Ebeo), kalamein lined fire doors, metal lath, plastering, marble, tile and terrazzo work, dumb waiter (Energy Elevator Co.), vapor heat, radiators (National Radiator & Rodine Co.), oil burner, plumbing, wrought iron pipe, plumbing fixtures (Kohlers), electric work. Contract awarded Golder

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Construction Co., 1600 Arch street, Philadelphia, \$140,000.

Office (alts. and add.), 216 East Hanover street, Trenton, N. J. Architect, private plans. Owner, J. H. Fritz, East State street, near Montgomery street, Trenton, N. J. Brick, 2 stories, 22x66 feet, tin roof, alterations to interior, partitions. Contract awarded H. Stearn Co., 2552 Liberty street, Trenton, N. J.

Rebuilding Central Pier, Tennessee avenue and Boardwalk, Atlantic City, N. J., \$250,000. Architect, Ralph Bencker, Thirteenth and Chestnut streets, Philadelphia. Owner, name withheld. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Mill, Cherry and Main streets, Lambertville, N. J. Engineers, W. P. Cameron Engineering Co., Packard Building, Philadelphia. Owners, Campbell Silk Hosiery, Lambertville, N. J. Brick, steel, 1 story, 100x105 feet, boiler house, 20x40 feet, wood roof, cement floors, septic tanks, steam heat, electric light, rolled steel sash, fire doors. Contract awarded W. P. Cameron Engineering Co., Packard Building, Philadelphia, who are taking sub-bids due at once.

Residences (2), Princeton avenue, Trenton, N. J., \$7,000. Owners, Patricelli & Farraca, Princeton street, Trenton, N. J. Brick, 2½ stories, 32x22 feet, slate roof, pine floors, electric work. Contract awarded Vincent Patricelli, 1219 Princeton street, Trenton, N. J.

Miscellaneous Construction News

Residence, State street, Dover, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, Jacob Ehrlich, Dover, Del. Brick, stucco, 2½ stories, 30x40 feet, slate roof, hardwood floors, oil burners, electric light, tile work. Plans in progress.

High School, Harrington, Del. Owners, State School Building Commission, Dr. H. V. Holloway, State Superintendent of Public Instruction, Dover, Del. Deposit, \$25, refunded. Certified check, 5 per cent. Owners taking bids due March 15th at 11 A. M.

Club (add.), Wilmington, Del., \$25,000. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, DuPont Country Club, care of H. Crooks, 829 Jackson street, Wilmington, Del. Stone, 2½ stories, slate roof, oak floors, heating extension, tile and marble, electric light. Architect taking bids.

Apartment House and Club Building, 349 West Forty-ninth street, New York City. Architect, S. A. Minoli, 204 East Forty-first street, New York. Owners, Vatel Club, 104

West Forty-seventh street, New York. Brick, steel, concrete, 7 stories and basement, 30x105 feet, concrete roof, plumbing, concrete floors, elevators, steam heat, electric light, tile, marble, terrazzo work, steel work, painting, glazing, miscellaneous iron work, plastering, cast stone, kalamein work, marquise. Architect taking bids due March 13th.

Residence (add.), Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, William Corey, 2303 Willard street, Wilmington, Del. Hollow tile, 2½ stories, 25x50 feet, asphalt roof, oak floors, hot water heat, electric light, tile work. Architect taking bids.

Residence (alts. and add.), 2310 West Seventeenth street, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, E. G. Aekart, on premises. Brick, second story add., 20x14 feet, built-up roof, hardwood floors, tile work, heating extension, electric light. Architect taking bids due March 11th.

Residence and Garage, Wilmington, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, J. L. Bennett, 633 South Grant street, Wilmington, Del. Brick, 2½ stories, 36x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architects taking bids due March 14th.

Residence (add. and alts.), 2003 Parkway, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, G. R. Kaiser, on premises. Brick or tile and stucco, 1 story, built-up roof, electric work, tile work, flagstone. Architect taking bids due March 11th.

School, Milford, Del. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Dover, Del. Brick, concrete, steel, 3 stories and basement, 152x73 feet, limestone, iron stairs, maple and yellow pine floors, integral waterproofing. Low bidders: J. B. Ferguson & Co., Hagerstown, Md., \$131,000. Electric, Electric Service Co., 706 West Fourth street, Wilmington, Del., \$3,660. Heating and ventilating, Palmer-Thackery Co., Rehoboth, Del., \$23,000. Plumbing, Pritchett & Robbins, Cambridge, Md., \$13,860.

Road Work, Delaware. Owners, Department of Highways, Dover, Del. Owners taking bids due March 12th at 2 P. M. Certified check, 10 per cent. Deposit, \$2.00.

Contract 115, Milford towards Cedar Neck School, 1.22 miles. Excavation, borrow, broken stone base course, cement concrete pavement, Class A concrete, reinforcement, corrugated metal pipe, R. C. pipe, cable guard rail, wood shoulder curb, timber piling.

Contract 116, Newport to Gap Turnpike, 2.00 miles. Clearing, grubbing, excavation, borrow, broken stone base course, cement concrete pavement, longitudinal metal joint, longitudinal joint (non-metal), Class A concrete, reinforcement, corrugated metal pipe, R. C. pipe, pipe underdrain, Class A concrete gutter, cable guard rail, wood shoulder curb.

Contract 117, Milton-Ellendale, 6.01 miles. Clearing, grubbing, excavation, borrow, cement concrete pavement, longitudinal metal joint, longitudinal joint (non-metallic), Class A concrete, reinforcement, corrugated metal pipe, R. C. pipe, wood shoulder curb.

Contract R, trees for planting along State Highways. Elm, plane, weeping willow.

Miscellaneous Contracts Awarded

Remodeling Buildings, Julien Creek, Va. Architect, James A. Wetmore, Treasury Building, Washington, D. C. Owners, United States Government, Navy Department, Washington, D. C. Slag roof, cement floors. Contract awarded Austin Engineering Co., 566 Southern Boulevard, Bronx, N. Y., \$42,500.

CENTURY OLD IRON AND STEEL COMPANY INCORPORATES

The Montgomery Iron & Steel Co., one of the oldest companies fabricating steel in the United States, has incorporated as of March first, the business, which prior to incorporation, was conducted by W. Nelson Mayhew and Samuel Frank and by W. Nelson Mayhew since the decease of Samuel Frank.

This concern has been operating since the year 1812, when John Joyce established a small blacksmith shop at 6th and Cherry Streets, Philadelphia, where he also was prepared to do bell hanging, machine work and to furnish sundry iron work for builders. Some years later he took into partnership one of his helpers by the name of O'Hara and the firm then became Joyce and O'Hara. This firm continued for a number of years, when we find a man by the name of John Steward, replacing Joyce, and the firm then became Steward and O'Hara.

Sometime in 1855, John B. Stevens, a

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nephew of John Steward, and an employee of the firm, was taken into the company and the title was then changed to Steward & Stevens and remained that until the death of John Steward in 1881, when John S. Stevens continued the business alone. John S. Stevens was the first president of the Builders' Exchange of Philadelphia.

On January 1st, 1887, Mr. Stevens took into the firm his two sons, R. Steward Stevens and Wm. W. Stevens and the firm became John S. Stevens and Sons. In 1892 the business was moved from 6th and Cherry Streets to 9th and Montgomery Avenue, when the foundry business of Royer Bros. was absorbed, the name remaining the same. About 1895 John S. Stevens retired from the business, having in the course of his lifetime built the first skyscraper in Philadelphia, i. e., the Drexel Building at 5th and Chestnut Streets. He also erected the Masonic Temple, Post Office, Academy of Fine Arts and the Philadelphia Record Building and furnished most of the iron for the Public Buildings. The firm was continued by his two sons, under the name of W. W. & R. S. Stevens.

On November 15th, 1900, Harry F. Hannis, a bookkeeper of the old firm, was taken into the firm and the name was changed to Stevens and Hannis, and on October 1st, 1902, the partnership of Stevens and Hannis was dissolved, and a new firm created consisting of R. Steward Stevens, J. Franklin Stevens, W. Nelson Mayhew and Samuel Frank, trading as the Steward & Stevens Iron Works.

One of the new members of the firm, W. Nelson Mayhew, had entered the employ of the firm on May 19th, 1900, shortly after the death of Wm. W. Stevens. W. Nelson Mayhew, C. E. (M. A. M. Soc. C. E.) was born in Philadelphia on March 14th, 1880, and was educated

in the public schools of this city. He graduated from the Central Manual Training High School and the University of Pennsylvania, class of 1901, in the civil engineering course, receiving the degree of B. S. and subsequently C. E. Mr. Mayhew was early identified with the Builders' Exchange and was elected as member of the Board of Directors in 1913, in which capacity he has served until the present time. In 1920 he was elected President of the Exchange and served until the date of the merger with the Building Trades and Employers Association. At present he is one of the Vice-Presidents and member of the Board of Directors of the Philadelphia Builders' Exchange and Employers Association. He is also Vice-President and member of the Board of Directors of the Structural Steel Board of Trade of Philadelphia.

Samuel Frank, the other new member of the firm, was born in 1867 in Diebolshheim, am Rhine, France, and studied ornamental iron work in a number of the principal cities of Europe. He came to America in July, 1889, and worked in various ornamental shops in Philadelphia, including John G. Brill, Spooner & Fryer, Horn and Brannen, Merritt & Co., Belmont Iron Works, Edward A. Darby & Sons, Wm. Purlin and Chas. F. Biggin. In 1901 he started in business with Louis Wagner under the name of the Columbia Iron Works, renting a section of the plant of Stevens and Hannis, at 9th and Montgomery Avenue.

R. Steward Stevens died May 17th, 1913, and on January 1st of the next year W. Nelson Mayhew and Samuel Frank took over the business under the old name of Steward & Stevens Iron Works, moving the plant to 1712-26 North 9th Street. During the World War, this firm was cited and received the Distinguished Certificate from the Secretary of War.

On December 1st, 1912, Joseph N. Dalsen, Samuel Frank and W. Nelson Mayhew started the Montgomery Iron & Steel Co., at 1832-34 North 9th Street, later purchasing the entire block on 9th Street from Berks to Montgomery Avenue, and on April 1st, 1921, the Steward & Stevens Iron Works joined with the Montgomery Iron & Steel Co., and a new partnership was formed, composed of W. Nelson Mayhew, Samuel Frank and Jos. N. Dalsen, trading as the Montgomery Iron & Steel Co.

On January 1st, 1923, this firm was changed to W. Nelson Mayhew and Samuel Frank, continuing under the name of the Montgomery Iron & Steel Co., and on January 15th, 1925, the 9th Street property was sold to the U. G. I. Contracting Co.

On August 1, 1926, the firm moved their offices to 2500 East Duncan Street, Frankford, and on January 15th, 1927, the plant was located at the same point (the plant being the largest in Philadelphia, American Bridge Co.'s plant excepted).

On July 30th, 1928, Samuel Frank answered the call of the Great Architect of the Universe and the business was conducted by W. Nelson Mayhew, the surviving partner.

On January 16th, 1929, W. Nelson Mayhew purchased from the estate of Samuel Frank, deceased, the half interest in the Montgomery Iron & Steel Co., formerly owned by Samuel Frank.

On March 1st, 1929, the Montgomery Iron & Steel Co., a Pennsylvania corporation, purchased from W. Nelson Mayhew, all his rights, title and interest in the firm of the Montgomery Iron & Steel Co.

The Montgomery Iron & Steel Co. have fabricated and erected many build-

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PORTABLE

MEYER COSSOY

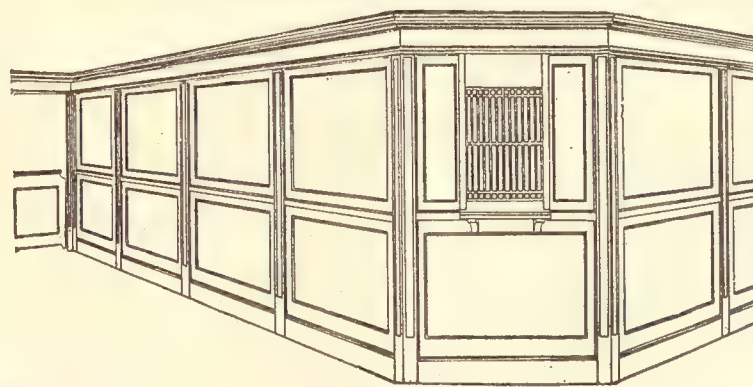
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ings in Metropolitan Philadelphia—the most recent being:—

The McClatchy Bldg., 69th and Market Sts., Upper Darby, Pa.; Sixty-Ninth Street Centre Bldg., Upper Darby, Pa.; Sedgwick Theatre, Mt. Airy, Phila., Pa.; Parker Theatre, Darby, Pa., Broad Street Title and Trust Bldg., Phila.; St. Luke's Hospital, Phila.; General Cold Storage Building for Pennsylvania Railroad, Phila.; Convent for the Holy Family of Nazareth, Torresdale, Phila.; Several Buildings for the La France Textile Mfg. Co., Frankford, Phila.; Oxford Bank and Trust Co., Frankford, Phila.; Roberts & Mander Stove Co., Hatboro, Pa.

The officers of the corporation so far elected are: W. Nelson Mayhew, President and Treasurer.

John Mayer, Vice-President, in charge of plant operation, born June 3rd, 1880, at Temesvar, Hungary, studied ornamental iron work in Austria and Hungary; came to America in 1903; entered the employ of Steward & Stevens Iron Works, March 8th, 1905, and has been with the Steward & Stevens Iron Works and Montgomery Iron & Steel Co. continuously from that date.

Susanna Prince, Secretary, an accountant, who entered the employ of Steward & Stevens Iron Works on June 19th, 1920, and has been with the Steward & Stevens Iron Works and Montgomery Iron & Steel Co. continuously from that date as Secretary and Credit Manager.

Mr. J. F. Bradley, Granite & Cut Stone, formerly of 1121 Fillmore St., Frankford, Philadelphia, has moved to 4822 Roosevelt Boulevard, Philadelphia.

ROOF OFTEN RECEIVES LEAST CONSIDERATION

Father Time, that relentless old chap, is forever on the go. He never stops. Hour after hour, day after day, year after year, he grinds away, exacting his toll from all of us.

His gruff old captain, Weather, and those active lieutenants, Wind, Rain, Snow, Frost and Heat, are always on the job, driving away, destroying the works of man. So they will work on your home—trying—striving to tear down that which you build.

Man from the earliest dawn of history has considered his home the most important and sacred of all institutions which he has created. Always his aim has been to build a shelter from the elements—that was more and more permanent. Always has he attempted to defeat old Father Time and his destructive cohorts. Today he is nearing his goal. Permanent building materials from which he can erect nearly every part of his home are available—awaiting his call.

One of the most important items in the whole house—the roof—receives from many builders the least consideration. Yet it presents more surface for the attack of that destructive army, and, therefore, should be the best protected.

Yet is it? No, in many cases it is not.

The roof has been the point where home builders have often figured they could economize. Yet in practically every case it has proven to be false and costly economy. The necessary outlay for repairs, upkeep and replacement of a perishable roof is soon much greater than would have been spent in putting on a roof of permanence in the first place. Not only have these items cost him more, but beautiful ceilings and interior walls have often been ruined, mounting up his expense for their renewal and repair. And then think of all the trouble and worry.

Is it worth the few dollars saved on the initial cost to roof your home with a perishable roof? Wouldn't it seem as logical to build your walls of cheap, perishable material which would need renewing every few years? Yet, who would think of doing that?

Today, through modern scientific methods, permanent roofing material has been placed within the reach of the builder of even the smallest homes.

Concrete tile is available—ready to solve your roofing problem. Not only is tile and slate permanent and everlasting, but it is beautiful.

Slate, prepared by Father Time and Mother Nature for your use millions of years before you were born or thought of, is time's own provision for making things that last. He will not destroy his own handiwork. The soft, subdued tones of slate have for two hundred years or more lent grace and dignity to many a beautiful church or stately colonial mansion. Tile and slate will add greatly to the beauty of any home, regardless of type, and greatly enhance its value.—*East Bay Builder.*

ARCHITECTS URGED TO GIVE MORE ATTENTION TO KITCHEN PLANNING

While unquestionably it is worth while to try to educate the housewife to increase her efficiency, it would be still more effective to educate the architect and builder to an understanding of what is needed in an efficient kitchen for the housewife. In speaking before the National Housing Conference at Philadelphia, Pa., Miss Hildegard Kneeland, of the Bureau of Home Economics, United States Department of Agriculture, stressed this point particularly, after showing that the domestic kitchen still remains "our most important workshop."

"If the workshop is too large, if the equipment is inadequate, if the arrangement of equipment requires constant re-tracing of steps," she said, "no amount of process charting and organizing of work can offset the waste of time and energy involved. That most of the kitchens now in use reveal all these deficiencies needs no argument.

"The great majority of housewives must take their kitchens as they find them. For the fifty-four per cent who rent, remodeling is usually out of the question. And even for those who own their homes remodeling is costly and unsatisfactory. If we are to have scientific kitchens we must build them so in the first place.

"The job of educating the architects and builders is a much easier one than that of educating the housewives. Compared with twenty-six million housewives there are only ninety thousand builders and building contractors listed by the 1920 census. And of architects, a mere eighteen thousand."

Miss Kneeland outlined the features of the efficient and convenient kitchen that have been repeatedly brought out by the Bureau of Home Economics and discussed in bulletins on the subject.

"It is desirable," she said, "that all requirements for the 'scientific kitchen' be met by the builder—that he equip the kitchen completely with refrigerator, cabinet, serving and stacking surfaces, and all facilities for storage. For it is only through building in the equipment that it can be made fully efficient, as well as harmonious and attractive and easy to keep clean. And it is also only by building it in that its provision is assured. If the family must provide the missing units they will all too frequently be lacking, or when provided fit badly into the space allowed. Can we not come to accept the full equipping of the kitchen as part of the cost of housing, just as we now accept the built-in closets in place of the portable wardrobes and chests which used to disfigure our bedrooms? Let us urge the builder at least to plan for all the needed equipment, and to place his windows and doors, and the stove and sink which he does provide, in such a way that the housewife bent on efficiency in her kitchen does not meet insuperable obstacles."

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

S. Libman, 629 College Ave., Pittsburgh, Pa.
Malia, Thos. J., 226-32 W. Mentor St., Phila.
Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.
New Jersey Cast Stone Co., Vineland, N. J.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub. Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.

Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.

Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

FIREPROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING-COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

GUARDS (Machine and Engine)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.
Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.
Simpson-Anderson Co., Widener Bldg., Phila.
Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co., 2500 Duncan St., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

Whartenby, Harry A., 1823 Brandywine St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th and Linden Sts., Camden, N. J.

LUMBER

Ketcham, Howard, 3rd and Girard Ave., Phila.

MARBLE

Frank W. Butterworth, 1518 Walnut St., Phila.

MARBLE AND MOSAIC

Belf Bros. Co., 1923 Market St., Phila.
Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co., 433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

MASON BUILDER

D'Lauro, John, 7732 Ardleigh St., Phila.

METAL DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

METAL LATH

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

METERS

Phila. Meter Co., Real Estate Trust Bldg., Phila.

PAVING BRICKS

Ketcham, O. W., 121 N. 18th St., Phila.

PHOTOSTATS

Weber, F., Co., 125 S. 12th St., Phila.

PILES

Foundation & Construction Co., 1320 Race St., Phila.

PLASTER (Colored)

California Stucco Products Co., 1316 Olive St., Phila.

PLASTER BOND

PLASTERERS

Keen Bros., Merchantville, N. J.

PLASTERING (Ornamental)

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

PORCH ENCLOSURES

Malia, Thos. J., 226-32 W. Mentor St., Phila.

RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

RADIATOR SHIELDS AND CABINETS

Acme Radiator Shield & Inclosure Co.,
2206 Chestnut St., Phila.

J. D. Gerken Co., 1015 Chestnut St., Phila.

REFRIGERATORS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

REINFORCING BARS

Milton Mfg. Co., Milton, Pa.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Penn Steel Service Co., Fuller Bldg., Phila.

ROAD MACHINERY

Service Supply Corp., 20th & Venango Sts., Phila.

ROLL SCREENS

American Metal Weatherstrip Co., 2115 Diamond St.
Malia, Thos. J., 226-32 W. Mentor St., Phila.

ROOFING

John Nacey Co., 7254 Paschall Ave., Phila.
Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING MATERIALS

MacGarvie, James B., Magnolia, N. J.
John Nacey Co., 7254 Paschall Ave., Phila.
Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING SLATE

Chapman Slate Co., Bethlehem, Pa.

ROOFING TILE

Hood Tile Co., S. E. Cor. Chestnut & 13th Sts., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

SAFETY TREADS (Grating)

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

SAND AND GRAVEL

Charles Warner Co., Union Bank Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

SCAFFOLDING

Patent Scaffolding Co., 2835 Bridge St., Phila.

SCREENS (Fly)

Malia, Thos. J., 226-32 W. Mentor St., Phila.

SEPTIC TANKS

Philadelphia Septic Tank Co.,
1129 Glenwood Ave., Phila.

SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

SHEET METAL WORK (General)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

SHEETROCK (Wall Board)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

SHELVING (Steel)

Richard W. Jefferis Co.,
11th and Linden Sts., Camden, N. J.

SOUNDINGS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

STEEL SASH

Richard W. Jefferis Co.,
11th and Linden Sts., Camden, N. J.

David Lupton's Sons Co.,
Allegheny Ave. and Tulip St., Phila.

STONE

St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

STUCCO MANUFACTURERS

California Stucco Products Co., 1316 Olive St., Phila.

Mayflower Stucco Co.,
Chestnut Hill, Phila., and Plymouth Meeting, Pa.

SURETY BONDS

Insurance Co. of North America, 1600 Arch St.
Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

TERRA COTTA (Architectural)

Atlantic Terra Cotta Co., Otis Bldg., Phila.

Conkling-Armstrong Terra Cotta Co.,
1600 Arch St., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

TILE AND TERRAZZO WORK

Belf Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Hood Tile Co., S. E. Cor. Chestnut and 13th Sts., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

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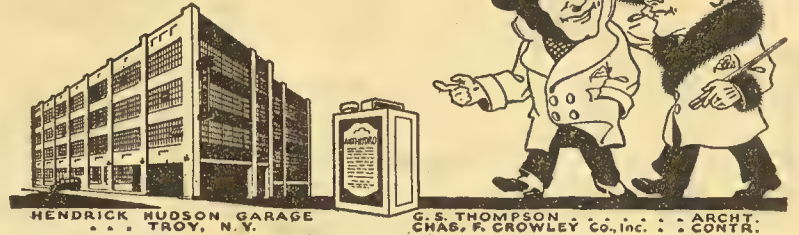
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 11
March 13, 1929

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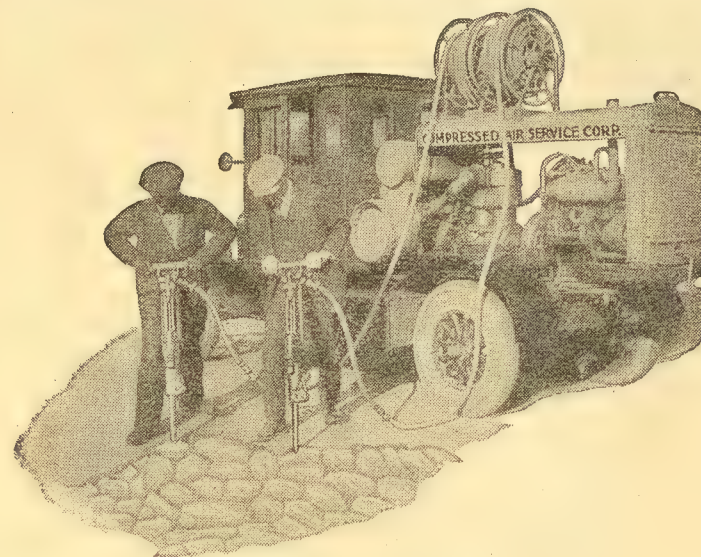
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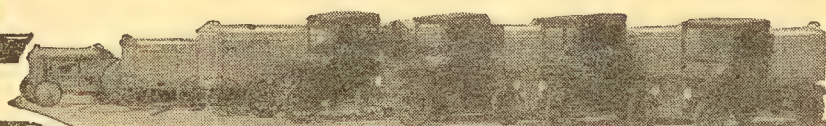
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VOLUME XLIV
Number 11

PHILADELPHIA
March 13, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY
BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Professional Building, 4653 Frankford avenue, Philadelphia. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, Dr. John E. Connors, Oxford Bank Building, Philadelphia. Brick, 2 stories, 14x81 feet. Preliminary sketches in progress. Too early for details.

Gymnasium Building, 4278 Griseom street, Philadelphia. Architect, Richard J. O'Donnell, 963 Allengrove street, Philadelphia. Owners, Isabel Council, Knights of Columbus, care of John Nulty, Frankford and Church street. Brick, limestone, steel, 1 story and basement. Revised plans in progress.

Bank and Office Building, 14-20 West Cheltenham avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Bank of Philadelphia & Trust Co., Leon Lewis, president, Broad and Diamond streets. Brick, steel, concrete, terra cotta, size of lot 60x100 feet. Preliminary plans in progress. Details undecided.

Residence (alts. and rear add.), 1220 Poplar street, Philadelphia. Architect, Lewis J. Cohen, Southeast Corner Broad and Chestnut streets, Philadelphia. Owner, Harry Kleinman, 1222 Poplar street, Philadelphia. Brick, 2 stories and basement, 16x60 feet rear add., store front, metal bulks, plate glass, electric light. Plans in progress.

Club House (alts.), 1908 Rittenhouse Square, Philadelphia. Architect, Ralph Bencker, Thirteenth and Chestnut streets, Philadelphia. Owners, Ethical Culture Society, care of Dr. Brubaker, 1324 Spruce street. Plans in progress.

Apartment House, Southeast Corner Sedg-

wick and McCallum streets, Philadelphia. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owners, Brown Brothers, Fox Building, Philadelphia. Brick, steel, 4 stories, 150x110 feet, slag roof, elevators, structural steel, ventilators, electric light, tile and marble work, skylights, fire and kalamein doors. Plans in progress. Owners will take sub-bids.

Residence and Garage, Clearfield, South of Mt. Pleasant avenue, Philadelphia. Architect, Roy G. Pratt, 1420 Walnut street, Philadelphia. Owner, D. W. Bond, Aldan Park Manor, Pa. Stone, 2 stories, 28x48 feet, slate roof, hardwood floors, electric refrigeration, hot water heat, oil burners, electric light, tile work, marble work, heating. Architect will build and is subletting.

Packing Plant, Thirty-sixth and Gray's Ferry street, Philadelphia, \$1,000,000. Architect, C. B. Comstock, 110 West Fortieth street, New York. Owners, F. G. Vogt & Sons, Inc., Thirtieth and Race streets, Philadelphia. Reinforced concrete, brick, steel, waterproofing, dampproofing, refrigeration, sales and office building, sausage kitchen and cooler, 100-car capacity garage, abattoir. Plans in progress. Ready for bids in one month.

Residences (90), Cottman, East of Frankford avenue, Philadelphia. Architect, private plans. Owner, Samuel Rochlis, 1518 North Fifth street, Philadelphia. Brick, 2 stories, 16x60 feet, slag roof, hardwood and cement floors, hot water heat, electric light, tile work, metal lath, garage in basement. Owner will build.

Garage and Studio (alts. and add.), 1520 Vine street, Philadelphia. Architect, Christian H. Fries, Oxford pike and Frankford avenue, Philadelphia. Owner, name withheld. Hot water heat, electric light, slag roof, interior and exterior alterations. Plans in progress. Ready for bids in 10 days.

Service Station, Sixty-third and Haverford, Master street, Philadelphia. Architect, private plans. Owners, Sun Oil Co., care of W. H. Booth, Finance Building, Philadelphia. Brick, 1 story, slag roof, cement, electric light. Owners will build.

Apartment (alts.), 1112 Pine street, Philadelphia. Architect, private plans. Owners, S. Goldberg & Son, 1108 Pine street, Philadelphia. Brick, 3 stories, vapor heat, electric light, oil burners, slag and tin roof, hardwood and linoleum floors, plastering, plumbing, carpentry, mill work, cement work. Owners taking bids.

Church, Twentieth and Cherry streets, Philadelphia. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, St. Clement's Episcopal Church, Rev. E. Jouver, Twentieth and Appletree streets, Philadelphia. Cement floors, slate and tin roof, iron stairs, demolition, shoring, underpinning, reinforced concrete, miscellaneous iron work, plastering, painting, glazing, sheet metal work, carpentry and mill work, hardware, heating, plumbing, electric work, bond, terra cotta, stone, flagstone, excavating, dampproofing, metal sash. Architect taking bids due March 15th.

Bowling Alleys, Billiard Room and Stores (3), 3211 Germantown avenue. Architect,

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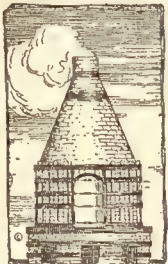
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Leon Rones, 2133 North Natrona street, Philadelphia. Owner, Marcus Shotz, 1833 North Natrona street, Philadelphia. Terra cotta, brick, stucco, fireproof, 2 stories, 100x175 feet, slag roof, concrete and linoleum floors, roof ventilators, metal ceilings, unit heating, tile and marble work, rolled steel sash, wrought iron work, dumb waiters, sprinklers. Architect taking bids due March 14th.

Warehouse, D near Erie avenue, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, Edgecomb Co., Leslie Edgecomb, president, Eleventh and Cambria streets, Philadelphia. Brick, 2 stories, steel, concrete, 240x156 feet, steam heat, electric light, slag roof, cement floors, rolled steel sash. Architect taking bids due March 18th.

Residence, 6515 Lincoln Drive, Philadelphia. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Mrs. C. H. Klumer, on premises. Stone, cinder block, stucco, 2½ stories, shingle roof, changing partitions, general alterations, hot water heat. Architect taking bids due March 15th.

Store and Office Building, Northeast Corner Broad and Spruce streets, Philadelphia. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owner, Edwin Wolf, care of architect. Limestone, terra cotta, brick, steel, 2 stories and basement, 40x114 feet, slag roof, wood and tile roof, structural steel, electric light, plumbing, marble work. Architects taking bids due March 18th.

Theatre, Fifty-second and Stiles streets, Philadelphia. Architect, William H. Lee, Schaff Building, Philadelphia. Owner, Charles Segal, care of Apollo Theatre, 1237 North Fifty-second street, Philadelphia. Steel, concrete, brick, 2 stories, 160x100 feet, 78x91 feet, gypsum roof, hollow tile, metal weather strip, architectural terra cotta, sprinklers, electric light, tile, marble and terrazzo work, metal lath, rolled steel sash, hollow metal skylights, tin and kalamein doors, iron stairs, ornamental iron work. Architect taking bids due March 16th at noon.

Underground Pedestrian Concourse, Relocation of Market Street Subway, Express Tracks under City Hall, Broad Street Subway, Philadelphia. Owners, Department of City Transit, thirteenth floor, City Hall Annex, Philadelphia. Owners taking bids due April 2nd. Certified check, 5 per cent. Deposit, \$50, refunded.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Owners taking bids due March 14th. Certified check, 5 per cent. No. 955—Furnish and deliver magnetic motor starter, Lower Roxborough Pumping Station. No. 956—Furnish and install steel doors, Belmont Pumping Station. No. 957—Furnish and lay L. P. fire hydrants. No. 958—Furnish pig lead. No. 959—Furnish and deliver C. I. pipe and special.

Residences (42), South side Seventy-second avenue, West of Eighteenth street, Philadelphia, \$162,000. Architect, private plans. Owners, James F. Nolen & Son, 64 East Church lane, Philadelphia. Brick, 2 stories, 16x37 feet, 13x10 feet, slag roof, hardwood and pine floors, electric light. Permit issued.

Residences (12), Kennedy street, East of Saul street, Philadelphia, \$52,800. Architect, Frank Nace, 1544 East Cheltenham avenue, Philadelphia. Owners, Bauerle & Nace Co., 1544 East Cheltenham avenue, Philadelphia. Brick, 2 stories, 17x27 feet, hot water heat, electric light, slag roof, hardwood and pine floors. Permit issued.

Residences (2), West side Westford street, South of Olney avenue, Philadelphia, \$6,600. Architect, private plans. Owner, Morris J. Levin, 550 East Olney avenue, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, hot water heat, electric light, slag roof, hardwood and pine floors. Permit issued.

Schools, Washington and Thouron streets; Tabor and Foulkrod streets, Philadelphia. Architect, Irvin T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Low bidders: Tabor and Foulkrod Street School—McCloskey Co., 1620 Thompson street, Philadelphia, \$409,952; M. Melody, 1322 Race street, Philadelphia, \$426,900; heating, Philadelphia Piping & Equipment Co., 1605 Rockland street, \$44,000; electric, Industrial Electric Co., 124 North 63rd street, Philadelphia, \$15,190; plumbing, Jacob Bugger & Son, 2124 East Cumberland street, Philadelphia, \$19,900. Washington and Thouron Street School—McCloskey Co., 1620 Thompson street, Philadelphia, \$414,731; M. Melody, 1322 Race street, Philadelphia, \$435,000; heating, Philadelphia Piping & Equipment Co., 1605 Rockland street, \$43,683; electric, Industrial Electric Co., 124 North Sixty-third street, Philadelphia, \$15,190; plumbing, Jacob Bugger & Son, 2124 East Cumberland street, \$19,200.

Miscellaneous Paving, Philadelphia. Low bidders. Owners, Bureau of Highways, Department of Public Works, City Hall. Cheltenham, Old York road to Seventeenth street, Eastern Asphalt Company, Pennsylvania Building, Philadelphia, \$21,698.21. Courtland, Fourth to Fifth, Municipal Paving Co., Second and Wingohocking streets, Philadelphia, \$5,238.91. Houghton, Monastery to Gerhard streets, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$5,238.56. Comly, Hasbrook, Cheltenham, Rising Sun, etc., Peerless Construction Co., Fifty-seventh and Florence avenue, Philadelphia, \$10,792.54. Lawn-

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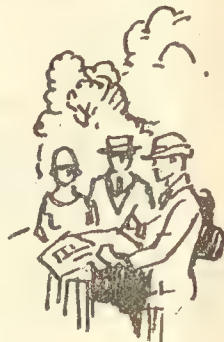
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dale, Longshore, Rising Sun, St. Vincent, etc., Peerless Construction Co., Fifty-seventh and Florence avenue, Philadelphia, \$4,339.12. Intersection Forty-fifth street, Baltimore and Springfield avenues, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$5,713.14. Porter, Broad to Sixteenth street, Municipal Paving Co., Second and Wingohocking streets, \$13,432.72. Tacony, Bridge to Railroad Crossing, Northeast, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$31,555.85. Rising Sun, Roosevelt Boulevard, Wyoming, C. G. Centrone, Bailey Building, Philadelphia, \$14,121.30. Furnish sand blast sand, George F. Pettinos, 1206 Locust street, Philadelphia, \$2,000 on each item. Paving and repaving certain alleys, Mancamp Construction Co., 1822 Moore street, Philadelphia, \$5,889.90.

Miscellaneous Supplies, Philadelphia Navy Yard. Owners, Bureau of Supplies and Accounts, Navy Department, Washington, D. C. Owners taking bids due March 12th, 10 A. M., bolts and nuts; bids due March 19th, steel pipe, wire rope, electric wire and cables.

Apartment House, Church Lane, east of Ogontz avenue, Philadelphia, \$250,000. Architect, Irvin T. Catherine, Franklin Trust Building, Philadelphia. Owner Harry Cahan, Bankers' Trust Building, Philadelphia. Brick,

steel, terra cotta, 4 stories and basement, 100x150 feet, 55 suites, slag roof, hardwood floors, slate work, tile, marble and terrazzo work, hot water heat, electric light. Plans completed.

Residences (34), Woodcrest avenue 57th to Fifty-eight street Philadelphia. Architect, Private plans. Owners, Madway & Madway, 4218 Lancaster avenue, Philadelphia. Brick, stone, 2 stories, 16x60 feet, slag roof, hardwood floors, steam heat, electric light, garage in basement. Owners will build. Work to start in a few days.

Service Station, Northwest corner Tabor and Mascher street, Philadelphia. Owner, Charles Kahn, Provident Trust Bldg., Philadelphia. Size of lot, 54x70 feet. Work contemplated.

Residence, Northeast of Vaux, northwest of Coulter street, Philadelphia. Owner, Geo. E. Deming, Meadowbrook, Pa. Size of lot, 109x192 feet. Work contemplated.

Club House, Sixteenth and Locust streets, Philadelphia. Architect, Grant M. Simon, 1500 Walnut street Philadelphia. Owners, University Club, Cas. Tyler Cowperthwaite, 1510 Walnut street Philadelphia. Limestone, fireproof, 42x70 feet, will contain library, assembly room, etc., 4 electric elevators. Ready for in two weeks. —

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Moving Picture Theatre (alts.), East side Broad street, north of Porter street, Philadelphia, \$14,000. Owners, Stanley Company of America, 11th and Market streets, Philadelphia. General alterations. Contract awarded E. M. Canny, 61st and Sansom streets, Philadelphia.

Residence (alts.), 3165 Frankford avenue, Philadelphia, \$4,000. Architect, private plans. Owner, Joseph DeN. Berryman, on premises. General alterations. Contract awarded James Moore, 1939 East Somerset street, Philadelphia.

Factory, 8300 Torresdale avenue, Philadelphia. Architect, private plans. Owners, Precision Grinding Wheel Co., R. Cotterill, on premises. Brick, steel, 2 stories, 96x70 feet, slag roof, plank and cement floors, steam heat, metal sash, fire doors. Contract awarded Wintz Brothers, 1618 Sellers street, Philadelphia.

Factory (alts. and add. and Stores (2)), Northwest Corner Second and Filbert streets,

Philadelphia, \$40,000. Architect, private plans. Owners, Second and Filbert Streets Realty Co., care of Elias Wilf, 209 Chestnut street, Philadelphia. Brick, cast stone, trimming, steel, 2 stories and basement, slow burning, 71x75 feet (plumbing, heating, electric, sprinklers reserved), slag roof, pine floors, elevator alterations, metal ceilings, reversible sash, plate glass, galvanized iron skylight, copper store front. Contract awarded David Wittenberg, 1519 North Thirty-third street, Philadelphia.

Building (alts.), Southeast Corner Broad and Parrish streets, Philadelphia. Architect, R. N. Dippy, 1601 Walnut street (L. Haupt). Owners, General Tire & Rubber Co., care of architect. Demolition, masonry, steel, carpentry, plastering, ornamental plaster, roof and sheet metal work, hardware, heating, electric, sprinklers, painting, glazing, marble work. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia.

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street, Philadelphia, \$10,000. Architect, private plans. Owner, Dr. H. D. Hazzard, 1243 South Broad street, Philadelphia. Brick, hot water heat, electric light, oil burners, slag roof, oak floors, tile and marble work, plastering, mill work, carpentry. Contract awarded Charles R. Davis & Son, 4729 Ludlow street, Philadelphia.

Residence, 4728 Griscom street, Philadelphia. Architect, Christian H. Fries, Oxford pike and Frankford avenue, Philadelphia. Owner, Dr. R. B. Millrich, Oxford pike and Frankford avenue, Philadelphia. Brick, 2½ stories, 33x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded Rush Brothers, 4682 Darrah street, Philadelphia.

Apartments (6), Disston and Erdrick streets, Philadelphia. Architect, private plans. Owner, John Smith, Disston and Erdrick streets, Philadelphia. Brick, 2 stories, 16x55 feet, slag roof, oak floors, hot water heat, tile work. Contract awarded Fred J. Blankenhorn, 8049 Rowland avenue, Philadelphia.

Building (alts. to second floor), 232-38 North Eleventh street, Philadelphia. Architect, private plans. Owners, Manufacturers' Exchange Building, on premises. General alterations. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia.

Lecture Hall, 111 North Forty-ninth street, Philadelphia. Architect, Arthur H. Broekie, 154 South Fifteenth street, Philadelphia. Owners, Pennsylvania Hospital, Department of Mental and Nervous Diseases, on premises. Stone, 1 story, 40x60 feet, granite, steel. Contract awarded Turner Construction Co., 1700 Walnut street, Philadelphia.

Residence and Garage, 6312 North Fairhill street, Philadelphia, \$10,000. Architect, private plans. Owner, E. J. Speitzel, 406 Duncan-non street, Philadelphia. Tile and block, 2 stories, 26x39 feet, 13x7 feet, garage 16x18

feet. Contract awarded F. V. Schubert, 4458 North Reese street, Philadelphia.

Store and Office, 3527-31 Lancaster avenue, Philadelphia, \$8,500. Architect, private plans. Owner, Anthony J. Zeits, 4309 Lancaster avenue, Philadelphia. Brick, 2 stories, 42 feet x irregular, hot water heat, electric work. Contract awarded Leonard Will, 900 Atwood road, Philadelphia.

Stores, Southeast Corner Ninth and Arch streets, Philadelphia, \$10,000. Owners, Dobson Estate, 811 Chestnut street, Philadelphia. Brick, 1 story, 28x54 feet, 37x52 feet, carpentry, mill work, electric work. Contract awarded S. Yellin & Son, 222 North Eleventh street, Philadelphia.

Residence, Northwest Corner Sixty-sixth and Callowhill streets, Philadelphia, \$12,000. Architect, private plans. Owner, Joseph Salvaci, 512 North Sixty-fifth street, Philadelphia. Stone, 2 stories, 32 feet 6 inches x 54 feet, 16x13 feet, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded Perna Brothers, 6413 Vine street, Philadelphia.

Residence (alts.), 1219 West Lehigh avenue, Philadelphia, \$2,000. Architect, private plans. Owner, Herman Barr, Germantown and Lehigh avenues, Philadelphia. General alterations. Contract awarded F. Stockholm, 120 North Camac street, Philadelphia.

Residence and Store (alts.), 615 South Twelfth street, Philadelphia, \$2,000. Architect, private plans. Owner, H. Brady, 4424 Pine street, Philadelphia. General alterations. Contract awarded James Cunningham, 2555 Carpenter street, Philadelphia.

Manufacturing Building, Southeast Corner Howard and Norris streets, Philadelphia, \$35,000. Architect, Edmund J. Fitzmaurice, Pennsylvania Building, Philadelphia. Owner, James A. Kenney, on premises. Reinforced concrete, 5 stories, 70x79 feet. Contract awarded Farrell-Roth Construction Co., 21 South Forty-sixth street, Philadelphia.

Residence (alts.), 1237 South Broad street, Philadelphia, \$10,800. Architect, private plans. Owner, Dr. H. D. Hazzard, 1243 South Broad street, Philadelphia. General alterations. Contract awarded Charles R. Davis & Son, 4729 Ludlow street, Philadelphia.

Residence and Store (alts.), 7841 German-town avenue, Philadelphia, \$3,000. Architect, private plans. Owner, Russell J. Ainman, on premises. General alterations. Contract awarded Charles S. Johnson & Son, 5600 Germantown avenue.

Elevator, Southwest Corner Lena and Ar-mat streets, Philadelphia, \$3,000. Architect, private plans. Owners, Continental Mills, Inc.,

on premises. Contract awarded R. M. Peterson & Son, 18 Queen Lane, Philadelphia.

Residence (add.), 2635 East Somerset street, Philadelphia, \$2,000. Architect, private plans. Owner, Joseph Ciccimarro, on premises. Brick, 2 stories add., 12x30 feet. Contract awarded Joseph Vitucci, 2914 Almond street, Philadelphia.

Service Station (add.), 3611 Kensington avenue, Philadelphia, \$6,000. Architect, private plans. Owners, Munz Brothers, 3609 Kensington avenue, Philadelphia. Brick, 1 story add., 20x100 feet, slag roof, cement floors. Contract awarded A. Earl Barnes Co., 2044 East Clementine street, Philadelphia.

Apartment House, 5323 Oxford avenue, Philadelphia, \$6,000. Architect, B. J. Brown, 1208 North Broad street, Philadelphia. Owners, J. Brown and A. J. Fink, Land Title Building, Philadelphia. Brick, 2 stories, 23x32 feet, 16x28 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded Oxford Construction Co., 1208 North Broad street, Philadelphia.

Residence, North side Faunce street, East of Montour street, Philadelphia, \$5,000. Architect, private plans. Owner, Christian Angerman, 3710 North Lawrence street, Philadelphia. Brick, 2 stories, 28x38 feet, electric light, hardwood and pine floors. Contract awarded Stefan Szatek, 1220 St. Vincent street, Philadelphia.

Manufacturing Building (alts.), Northeast Corner Tenth and Filbert streets, Philadelphia, \$5,000. Architect, private plans. Owners, Sternberger Estate, care of Provident Trust Co., Seventeenth and Chestnut streets, Philadelphia. General alterations. Contract awarded A. B. Kister, 1204 Chancellor street, Philadelphia.

Church (alts.), Northwest Corner K and Lycoming streets, Philadelphia, \$2,500. Architect, private plans. Owners, care of H. Clay Green, trustee, 2544 West Cumberland street, Philadelphia. General alterations. Contract awarded Joseph W. Hughes, 5918 North Franklin street, Philadelphia.

Pennsylvania Construction News

Dye House (add.), Eighth and Harrison streets, Allentown, Pa., \$75,000. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Arcadia Knitting Mills, 749 Harrison street, Allentown, Pa. Brick, 1 story. Preliminary plans in progress.



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Administration Building, Fourth and Chew streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Hospital, 421 Chew street, Allentown, Pa. Brick, 4 stories. Preliminary plans in progress.

Mill Building (add.), Allentown, Pa., \$200,000. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Arcadia Knitting Mills, 749 Harrison street, Allentown, Pa. Brick, steel, 4 stories, basement and sub-basement, 67x307 feet. Plans in progress.

Store and Apartment, Ardmore, Pa. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1420 South Penn Square, Philadelphia. Brick, 3 stories, 16x85 feet, slag roof, hardwood floors, electric light. Plans in progress.

Bank, Meshoppen, Pa. Architect, L. V. Lacey, 45 Owen avenue, Forty Fort, Pa. Owners, First National Bank, Meshoppen, Pa. Brick, stone trim, 2 stories, 40x30 feet, tile, marble. Plans in progress.

Store Building (alts.), Shickshinny, Pa. Architect, L. V. Lacey, 45 Owen avenue, Forty Fort, Pa. Owner, Herman Kline, Shickshinny, Pa. Stone front, general alterations. Plans in progress.

Auto Show Room and Garage, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, name withheld. Brick, steel, 2 stories, 40x170 feet, slag roof, concrete and plank floors, plate glass, copper bars, steam heat, electric light. Plans in progress. Ready for bids in two weeks.

Residence and Garage, Aronimink, Pa., \$20,000. Architect, private plans. Owner, Donald MacThail, Drexel Hill, Pa. Stone, shingle, 2½ stories, 26x45 feet, 1 story, 20x22 feet, hardwood floors, central heat, electric light, tile work. Owner will build.

Residence and Garage, Lansdowne, Pa. Architect, C. H. Jester, 141 South Fifty-second street, Philadelphia. Owner, Edward Harris Smith, 36 Dudler avenue, Lansdowne, Pa. Stone, brick, stucco, 2½ stories, 25x40 feet, 10x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build and is taking sub-bids.

Church, York, Pa. Architects, Witman & Royer, 36 East Market street, York, Pa. Owners, St. Peter's Lutheran Church, Rev. James H. Goss, 946 North George street, York, Pa. Brick, stone, 1 and 2 stories, 78x103 feet, slate roof, maple floors, vapor heat, electric light. Architects will be ready for bids about April 1st.

Fairview Grade School, near Reading, Cumru Township, Pa. Architect, H. V. Patterson,

R. D. 2, Sinking Spring, Pa. Owners, Cumru Township School Board, Pierce Schonour, Gouglersville, Pa. Brick, semi-fireproof, 2 stories, from 12 to 16 rooms. Plans will be ready for bidders about May 1st.

School and Gymnasium, Seventeenth and Linden streets, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Allentown School Board, D. A. Miller, president, 29 South Penn street, Allentown, Pa. Brick, steel, 4 stories, 110x124 feet, built-up roof, maple floors, hollow tile, safety treads, roof ventilators, metal lath, steel sash (heating, plumbing and electric separate). Owners will be ready for bids in three weeks.

Residence and Garage, Conshohocken, State and Country Club roads, Merion, Pa. Architects, Wallace & Warner, Franklin Trust Building, Philadelphia. Owners, Mr. and Mrs. R. G. Montgomery, care of architect. Stone, 2½ stories, 58x58 feet, shingle and tile roof, hardwood floors, electric light, tile work, cement work. Architects will build and are sub-letting.

School, East End, Wilkes-Barre, Pa. Associate architects, C. J. Emmitt, 198 South Main street, and G. F. Weitzel, Weitzelkorn Building, Wilkes-Barre, Pa. Owners, Holy Saviour Roman Catholic Church, Rev. J. J. McCabe, 35 Worrall street, Wilkes-Barre, Pa. Steel, fireproof, 2 stories and basement, 79x112 feet, slag and built-up roof, maple, concrete floors, safety treads, roof ventilators, waterproofing and dampproofing, limestone, iron stairs, floor hardener, bond, fire doors, steel sash, tile, marble, vapor heat, electric light. Architects will be ready for bids first of next week.

Residences (100), Upper Darby, Pa. Architect, private plans. Owner, J. S. Mozino, 6936 Market street, Philadelphia. Brick, stone, frame, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids on first unit of ten.

Residence, Montgomery avenue and Spring Mill road, Villa Nova, Pa. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, Thomas E. Hare, 919 Walnut street, Philadelphia. Stone, 2½ stories, 28x139 feet, shingle roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect will be ready for bids about March 16th.

Court House (two wings), Media, Pa. Architect, C. W. Brazier, Chester, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. White marble, 3 stories and basement. Plans completed. Owners will soon take bids.

Church and Parish House, Stonehurst, Pa.

Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owners, St. Giles' Protestant Episcopal Church, Rev. Walter C. Pugh, Upper Darby, Pa. Brick, stone, 1 and 2 stories, slate roof, hardwood and maple floors, electric. Ready for bids in a week.

Junior High School, near Swedeland, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Upper Merion Townships, A. Hays Mill, Port Kennedy, Pa. Owners will soon take new bids.

Church and School, North Main street, Wilkes-Barre, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, St. John the Evangelist Roman Catholic Church, Rev. D. J. Kane, 115 North Main street, Plains, Wilkes-Barre, Pa. Brick, steel, 1 story, 130x65 feet, gypsum roof, concrete and oak floors, hollow tile, safety treads, art glass, tile, marble, steel sash, ornamental iron. Architect taking bids due March 15th.

Sales and Service Station, 1032 Lancaster avenue, Rosemont, Pa. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owners, Dunn's Garage, Rosemont, Pa. Steel, concrete, brick, concrete blocks, 2 stories, 65x120 feet, concrete ramps, Perry asphalt roof, cement floors, clear span and joist, steel sash, metal skylights. Plans ready for bids March 11th. Bids due March 20th.

Fraternity House, State College, Pa. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, Delta Sigma Chi Fraternity, State College, Pa. Stone, stucco, 2 stories, 91x84 feet, slate roof, composition floors, cement work, weather strip, mill work, plastering, plumbing, cinder concrete blocks, iron work, tile work, electric

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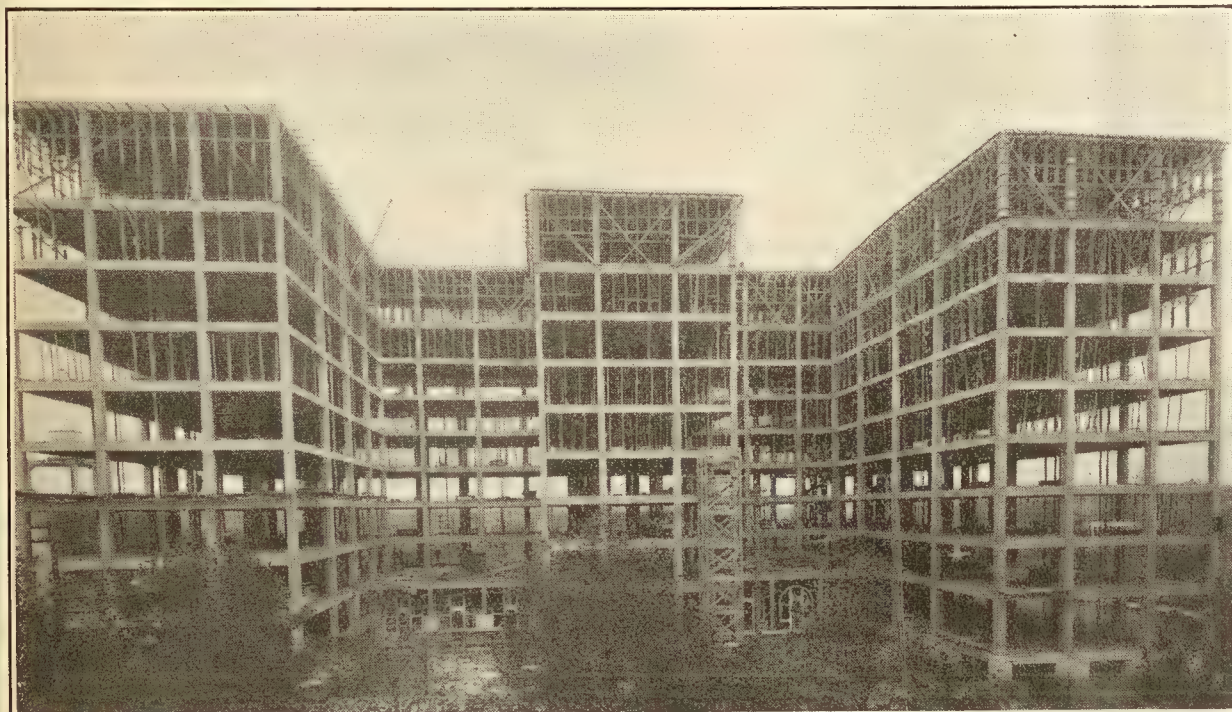
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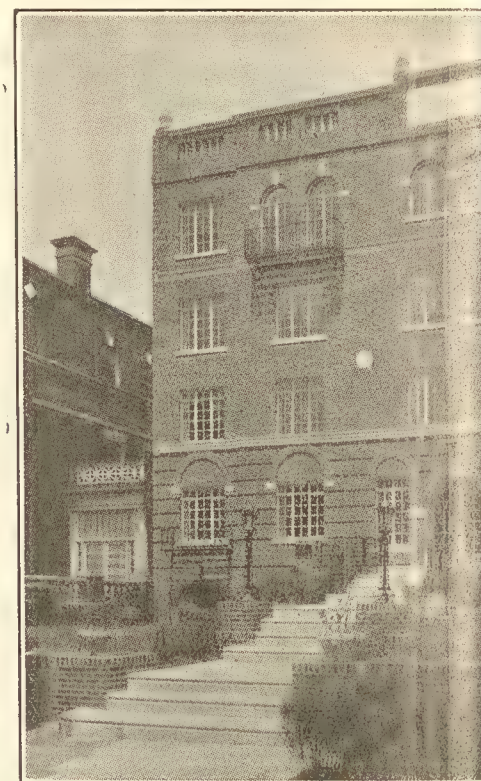
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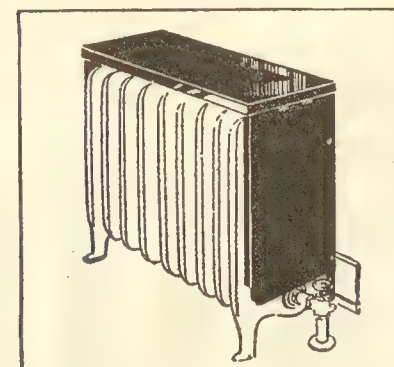
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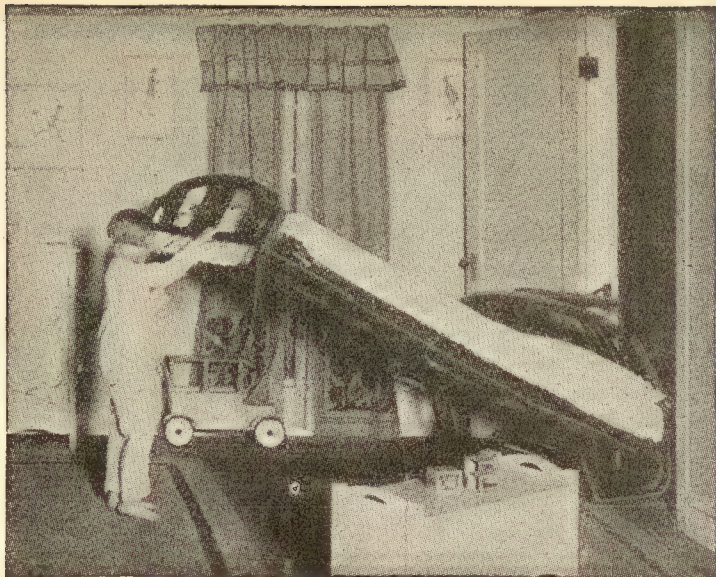
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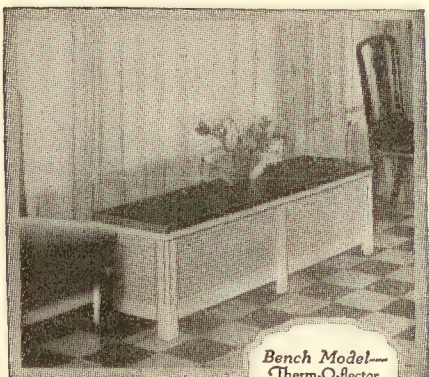
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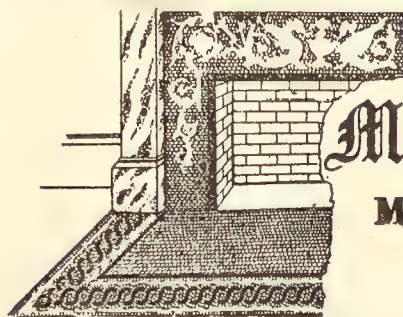
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Library, South Side, Bethlehem, Pa. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bethlehem Public Library, 11 West Market street, Beth-

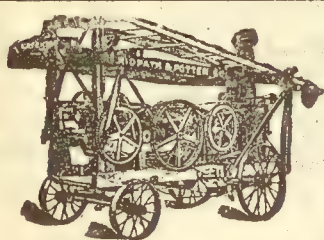
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lehem, Pa. Stone, brick, steel, 1 story and basement, 40x100 feet, slate roof, hollow tile, hardwood floors, vapor heat, electric light, metal lath. Architects taking bids due March 15th.

Residence and Garage, Huntingdon Valley, Pa. Architect, Donald Cochrane. Associate, E. H. Wigham, Jr., 535 Central avenue, Cheltenham, Pa. Owners, W. & M. Herkness, Land Title Building, Philadelphia. Stone, 2½ stories, 80x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Architects taking bids due March 15th.

Reconstruction of School, Edgemont avenue, Parkside, Pa. Architect, C. M. Ryder, Chester, Pa. Owners, Parkside School District, J. H. Phipps, 2606 Edgemont avenue, Chester. Owner taking bids due March 14th, 8 P. M.

Technical School (add.), Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, Scranton School Board, Frank T. Magovern, president, 425 North Washington avenue, Scranton, Pa. Fireproof, 5 and 4 stories, 250x142 feet, built-up roof, maple floors, hollow tile, safety treads, roof ventilators, metal window guards, waterproofing and dampproofing, acoustical treatment, flagstone, ornamental iron, casement windows, soundproofing, iron stairs, bond, fire doors, steel skylights, tile work, metal lath (heating, plumbing and electric separate). Owners taking bids due April 8th.

Warehouse, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Hill Metal & Roofing Co., 901 North New street, Allentown, Pa. Brick, steel, 1 and 2 stories, 44x125 feet, steel reinforced deck, reinforced concrete floors, steel sash, kalamein doors, cast stone, concrete block. Architects taking bids due March 15th.

Residence and Garage, Pennstone road, Bryn Mawr, Pa. Architect, Ralph L. Colton, 1520 Locust street, Philadelphia. Owner, Mrs. Charles B. Burr, 115 South Twenty-first street, Philadelphia. Brick, 2½ stories, 44x33 feet, wing 18x21 feet, slate roof, hardwood floors, hot water heat, electric light, brass pipe. Architect taking bids due March 16th.

Consolidated High School, Damascus, Pa. Architect, Lewis Hancock, Mears Building, Scranton, Pa. Owners, Damascus Township School Board, Fred Seipp, secretary, Damascus, Pa. Frame, 2 stories, 103x72 feet, asbestos roof, maple and pine floors (heating, plumbing and electric separate). Owners taking bids due March 25th.

Country Club (add.), Plymouth Meeting, Pa. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owners, Plymouth Meeting Country Club, A. T. Eastwick, president, care of James Lee Sons, Bridgeport, Pa. Stone, 2 stories add. Architect taking bids due March 18th.

Residence, Wayne, Pa. Architects, Bissell & Sinkler, 1520 Locust street, Philadelphia. Owner, Mrs. Frederick W. Ristine, Wayne, Pa. Steel stone, brick, 2½ stories, irregular in size, built-up slate roof, oak, cement and cork floors, waterproofing and dampproofing,

wire screens, caulking, flagstone, metal lath, tile work, rolled steel skylights, hollow metal sash, area gratings, cinder concrete block. Architects taking bids due March 18th.

Laundry Building, Laurelton, Pa. Architect, George S. Idell, 1512 Chestnut street, Philadelphia. Owners, Laurelton State Village, Laurelton, Pa. Low bidders: D. R. Pursley, Laurelton, Pa., \$89,000; O. P. Bell Construction Co., Sunbury, Pa., \$98,947.66; plumbing, B. O. Daubert, Hartleton, Pa., \$6,988; heating, E. Keeler, Williamsport, Pa., \$6,473; electric, F. P. Edwards, Bloomsburg, Pa., \$5,394.

School, Farmington, Kent Co., Delaware. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Supt., Dover, Dela. Brick, concrete, timber, 1 story, 92x34 feet. Certified check, 5%. Plans and specifications may be obtained from Delaware School Foundation, 4116 DuPont Building, Wilmington, Dela., upon deposit of \$25.00 (refunded). Owners taking bids due March 22nd at 11 A. M.

Stores and Apartments (3), Wynnewood, Pa. Architect, S. Arthur Love, 1324 Walnut street, Philadelphia. Owner, Donald Love, 1324 Walnut street, Philadelphia. Stone, brick, 2 stories, slag roof, hardwood and cement floors, steam heat, electric light. Owner will take sub-bid in one month.

Hosiery Mill, Bloomsburg, Pa. Architects, The Ballinger Co., 12th and Chestnut streets, Philadelphia. Owners, Bloomsburg Hosiery Mills, Bloomsburg, Pa. Architects taking bids due March 19th. (Note extension of time.)

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, Capitol Building, Harrisburg, Pa. Low bidders.

Lehigh County, R-443, S-2, R-5795, Upper Macungie and Weisenburg Townships. One course reinforced concrete. Continental Contracting Co., Inc., Baltimore, Md., \$88,639.78.

Lackawanna County, A-4717, Archbald Borough. One course reinforced concrete. R. C. Richardson Construction Co., Scranton, Pa., \$68,051.89.

Jefferson County, R-59, S-2, Snyder Township, Brockway Borough. One course reinforced concrete. H. N. McNutt, Clarion, Pa., \$56,710.30.

Tioga County, R-102, S-6, Shippen Township. One course reinforced concrete. A. W. Hinaman Construction Co., Williamsport, Pa., \$19,509.95.

Lancaster County, A-5824, Providence Township. Bituminous surface treated macadam surface course. H. P. Miller Co., Lancaster, Pa., \$57,607.37.

Lawrence County, R-4918, North Beaver Township. One course reinforced concrete. J. C. Devine Co., Meadville, Pa., \$41,329.80.

Westmoreland County, R-119, Sec. 5-A, Unity Township. One course reinforced concrete. Bituminous surface treated macadam surface course for road approaches. Michael Baerber, Binghamton, N. Y., \$66,446.07.

Mercer County, R-238, Spruce B, C, A-5656, Shenango Township, Wheatland Borough. One course reinforced concrete, grading and drainage. Fort Pitt Construction Co., Pittsburgh, Pa., \$164,868.68.

Pike County, A-5782, Delaware Township. Bituminous surface treated macadam surface course. Burgess Brothers & Henry, Fort Union, Va., \$57,969.05.

Luzerne County, R-369, A-4844, 5544, Plymouth Township. One course reinforced concrete, grading and drainage. A. A. White, Lebanon, Pa., \$118,855.66.

Cumberland County, A-5750, Newton Township. Bituminous surface treated macadam

surface course. L. N. Hutchinson, Altoona, Pa., \$80,711.38.

Carbon County, R-550, A-5549, East Mauch Chunk Borough, Mauch Chunk and Penn Forest Townships. One course reinforced concrete, grading and drainage. A. A. White, Lebanon, Pa., \$94,314.42.

Adams County, A-5510-, Conewago and Oxford Townships. Bituminous surface treated macadam surface course. Paul R. Hostetter, Inc., York, Pa., \$75,894.64.

Indiana County, A-4849, East wheatfield Township. One course reinforced concrete, grading and drainage. E. R. Vipond, Hollidaysburg, Pa., \$70,470.24.

Cumberland County, A-5749, Upper Frankford Township. Bituminous surface treated macadam surface course. Diehl-Henneberger & Wishard, Greencastle, Pa., \$46,542.30.

Lehigh County, A-6052, Coplay Borough. One course reinforced concrete. Kulpmont Construction Co., Kulpmont, Pa., \$13,585.58.

Columbia County, A-5190, Berwick Borough. One course reinforced concrete. O. P. Bell Construction Co., Inc., Sunbury, Pa., \$59,777.24.

Armstrong County, R-534, Wayne and Cowanshannock Townships. One course reinforced concrete. Gray Brothers Co., Inc., Youngstown, Ohio, \$115,759.41.

Schuylkill County, R-718, Ashland Borough, Butler Township. One course reinforced concrete. Kulpmont Construction Co., Kulpmont, Pa., \$56,485.10.

Butler County, R-75, A-5529, 5603, Center, Oakland and Concord Townships. One course reinforced concrete, grading and drainage. Charles Winters Construction Co., Butler, Pa., \$407,131.62.

Crawford County, R-5418, West Mead Township. One course reinforced concrete. Eastern States Construction Co., Inc., Meadville, Pa., \$56,407.05.

Pennsylvania Contracts Awarded

Residence, Sterling road and Cedar avenue, Elkins Park, Pa. Architect, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Sylvan Hirsch, care of architect. Stone, 2½ stories, shingle roof, hardwood floors, electric light, tile work. Contract awarded E. J. Heinke, 505 Church road, Philadelphia.

Residence and Garage, Laverock, Pa. Architect, J. W. Keys, Otis Building, Philadelphia. Owner, F. W. Fairchild, 250 Gorgas Lane, Philadelphia. Stone, 2½ stories. Contract awarded S. Harting & Son, 20 East Johnson street, Philadelphia.

Store (alts.), West Gay street, West Chester, Pa. Architect, W. J. Coreoran, West Chester, Pa. Owner, Henry DeHaven, on premises. New metal bulks, central heat, structural steel, interior alterations, composition floors. Contract awarded J. Werner Schmitt, Malvern, R. F. D., Pa.

Hotel Sterling (add.), Wilkes-Barre, Pa. Architects, Warren & Wetmore, 16 East Forty-seventh street, New York. Owners, Wilkes-Barre Hotel Co., P. W. Mallow, Market and River streets, Wilkes-Barre, Pa. Brick, steel, reinforced concrete, 14 stories and basement, 132x54 feet, steam heat, ventilating, electric work, elevators, hollow metal and kalamein doors, metal lath, composition roof, bond, oak and pine floors, marble work, tile and terrazzo work, fireproofing, architectural terra cotta, cut stone. Contract awarded John Curtis Co., 1 Hickory street, Wilkes-Barre, Pa.

Fire House, Drexel Hill, Pa. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Garrettford-Drexel Hill, G. K. Robinson, Drexel Hill, Pa. Brick, cast stone, steel, 1 story and basement, 45x98 feet, slate

roof, cement floor. Contract awarded Donald MacThail, Drexel Hill, Pa.

Fire House, Cornwells, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Cornwells Fire Company, No. 1, Ralph Simon, Cornwells, Pa. Brick, 2 stories, 36x50 feet, built-up roof, slag roof, concrete and wood floors, overhead doors, hot water heat, electric light. Contract awarded Charles S. Page, Cornwells, Pa., \$8,440.

Residence, Avondale, Chester County, Pa. Architect, W. J. Coreoran, West Chester, Pa. Owner, Norman Pusey, Avondale, Pa. Stone, 2½ stories, 27x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded H. L. McLimans, Avondale, Pa.

Apartment (alts.), Old Lancaster avenue, Bala, Pa. Architect, H. Gordon McMurtrie, 1321 Arch street, Philadelphia. Owner, J. R. K. Scott, Lincoln Building, Philadelphia. Stone, 3 stories, vapor heat, electric light, tile work, new partitions. Contract awarded A. L. Fretz & Son, 1213 Filbert street, Philadelphia.

Residence (alts., enclosed porch), Meadowbrook, Pa. Architect, Edgar A. Wightman, Bankers' Trust Building, Philadelphia. Owner, E. H. Glenn, Meadowbrook, Pa. Changing main entrance, plumbing, tile work, heating, electric light, screens, weather strip, cement work, mill work, brick, copper flashings, iron work. Contract awarded H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

Residence (alts. and add.), Laverock, Pa. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Mrs. Frederick Jordon, on premises. Stone, 2½ stories and basement, oak floors, flagstone, Zenithern floors, carpentry, mill work, plastering, painting, glazing, slate roofing, general interior alterations. Contract awarded J. S. Cor-

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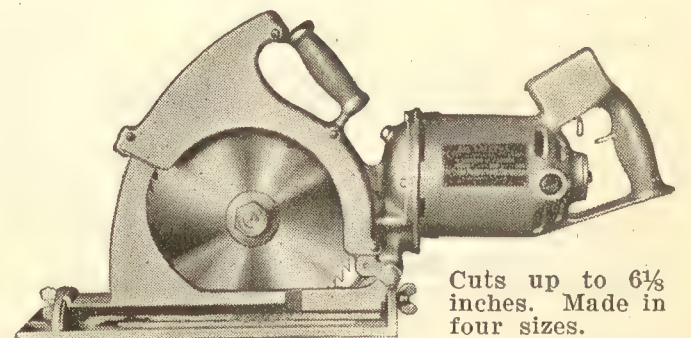
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Store, Kingston, Pa. Architect, L. V. Lacey, 45 Owen avenue, Forty Fort, Pa. Owner, T. E. Husband, 1736 Wyoming avenue, Kingston, Pa. Brick, steel, 4 stories and basement, 80x70 feet, asphalt roof, maple floors, vapor heat, electric light, tile work. Contract awarded A. J. Sordoni, 45 Owen avenue, Forty Fort, Pa.

Office, Duncannon, Pa. Architect, L. V. Lacey, 45 Owen avenue, Forty Fort, Pa. Owners, Commonwealth Telephone Co., Duncannon, Pa. Fireproof, 1 story, 31x30 feet, concrete and linoleum floors. Contract awarded A. J. Sordoni, Forty Fort, Pa.

New Jersey Construction News

Dye House (alts. and add.), Atlantic City, N. J. Architect, J. E. Lippincott, 33 North Connecticut avenue, Atlantic City, N. J. Owners, Rodman Cleaning & Dyeing Co., Delaware and Drexel avenues, Atlantic City, N. J. Brick, steel, second floor add., 25x175 feet, slag roof, pine floors, roof ventilators, steel sash, electric light. Plans in progress.

Apartment, 19 South Pennsylvania avenue, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Charles F. Wahl, 33 South Pennsylvania avenue, Atlantic City, N. J. Brick, steel, 6 stories, 150x130 feet, concrete roof, concrete, pine and composition floors, (3) elevators, safety treads (heating, plumbing and electric separate), tile, marble, metal lath, iron stairs. Revised plans in progress.

Factory, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Puritan Rubber Co., Perrine avenue, Trenton, N. J. Brick, steel, 3 stories, 65x65 feet, slag roof, concrete floors, roof ventilators, elevators, waterproofing and damp-proofing, iron stairs, fire doors, steel sash and skylights, electric work. Plans in progress.

Store and Apartment, 199-201 South Broad street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, Milton Kirkin, 729 Greenwood avenue, Trenton, N. J. Brick, stone, steel, granite, 3 stories, 30x150 feet, slag roof, hardwood floors, hollow tile, safety treads, damp-proofing, vapor heat, electric light, metal lath, tile, marble, steel sash, kitchen equipment, refrigeration, built-in beds, copper work, wrought iron pipe. Architect ready for bids in one week.

Office and Apartment (alts.), Pacific and Michigan avenues, Atlantic City, N. J. Architect, J. E. Lippincott, 33 North Connecticut avenue, Atlantic City, N. J. Owners, Edison Realty Co., 2006 Pacific avenue, Atlantic City, N. J. Brick, 1 story, 20x75 feet, hardwood floors, hot water heat, tile work, electric light, tile work, plate glass, copper work, ornamental iron work. Owners building.

Service Station, Northeast Corner Virginia and Baltic avenues, Atlantic City, N. J. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Cinder block, stucco, shingle roof, cement floors, 1 story. Owners will build.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route 44, Section 5, Gibbstown to Bridgeport, Gloucester County, N. J. Unclassified excavation, borrow, penetration macadam, gravel shoulders. Certified check, 10 per cent. Deposit, \$10. Owners taking bids due March 25th at noon.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route 10, Sec. A, Contract 22, from Charlotte avenue to the Hackensack River in Jersey City, Hudson County, N. J. Embankment, concrete foundations for structures founded in part timber piling and part concrete caissons. Certified check, 10 per cent. Deposit, \$10. Owners taking bids due March 25th at noon.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route 29, Sec. 6, Mt. Airy to Lambertville, Hunterdon County, N. J. Earth excavation, rock excavation, borrow, single line reinforced concrete pavement, penetration macadam pavement. Certified check, 10 per cent. Deposit, \$10. Owners taking bids due March 25th at noon.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Overpass bridge at junction with Routes 21 and 29, at or near Peddie Ditch, Newark, Essex County, N. J. Low bidders: Rust Engineering Co., 30 Church street, New York City, \$82,688.50.

New Jersey

Contracts Awarded

Arcade Cafe Building, 12 Hudson street, street, Camden, N. J. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owners, Arcadia Cafe, 529 Federal street, Camden, N. J. Brick, limestone, steel, 3 stories and basement, 90x19 feet, bond, excavation, stone foundations, marble and tile work, terrazzo floors, steel sash, carpentry and millwork, painting, glazing, electric work, composition floors (Acme Asbestos, Covering & Flg. Co., or equal), skylights (G. Frowne Co.), plumbing, hot water heat, Johnson Oil Burners, boiler (American Radiator Co.), Corte Radiator, dumbwaiters, (Energy Elevator Co.), metal lath, plastering, slag roof. Contract awarded H. Curtis Paschall, 117 East Irving street, Merchantville, N. J.

Store (add.), North Broad street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Home Furniture Co., 137 North Broad street, Trenton, N. J. Brick, terra cotta, steel, 2 stories, 35x110 feet, slag roof, maple floors, elevators, roof ventilators, heating extension. Contract awarded Grover Sessler, 1314 Riverside avenue, Trenton, N. J.

Bridge Substructure, across Hackensack River at Secaucus, Bergen and Hudson Counties, N. J., Route 3. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Contract awarded Allan N. Spooner & Son, South River, New York, \$501,869.30.

Miscellaneous

Contracts Awarded

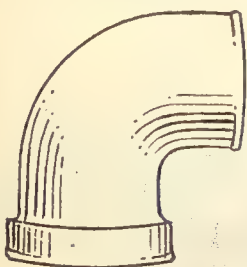
Apartment House, Fourteenth and Broome streets, Wilmington, Del. Architect, Wallace E. Hance, Equitable Building, Wilmington, Del. Owners, Denbeigh Hall, Inc., care of architect. Brick, steel, 4 stories, 140x250 feet, composition roof, hardwood and tile floors, composition floors, elevators, safety treads, roof ventilators, electric light, metal lath, tile and marble work. Contract awarded Taylor-Meyer Co., Keystone Building, Pittsburgh, Pa.

Club (add.), Wilmington, Dela. Architect, C. R. Hope, DuPont Building, Wilmington, Dela. Owners, DuPont Country Club, care of H. Crooks, 829 Jackson street, Wilmington, Dela. Stone, 2½ stories, slate roof, oak floors, heating extension, tile and marble, electric light. Architect taking bids due March 15th.

VALUE OF BUILDING PERMITS ISSUED IN PENNSYLVANIA CITIES AND BOROUGHs DURING JANUARY, 1929, IS NEARLY DOUBLE THE TOTAL OF JANUARY, 1928

Building permit reports received by the Department of Labor and Industry from 42 Pennsylvania cities and boroughs show the estimated cost of building construction, including additions, and alterations and repair work, to be \$21,489,905, for January, 1929. This amount compared to the \$11,107,237 total reported by these same cities and boroughs for January, 1928, shows an increase for January, 1929, of \$10,382,668, or 93.5 per cent.

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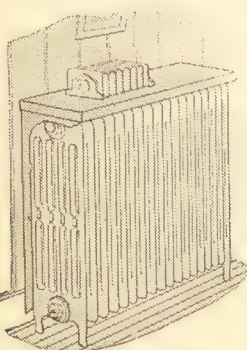
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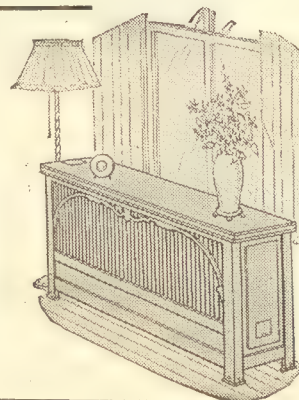
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Of the 42 cities and boroughs that submitted reports to the Department, 20 reported increases in amounts of construction work over January, 1928; 21 reported decreases; and one, Tyrone, reported no permits issued in January of either year. Of the 20 cities and boroughs that reported increases for January, 1929, two, which show increases in excess of \$500,000 each, are Philadelphia with \$12,678,770, or a 282.8 per cent increase, and Erie with \$523,405, or a 475.6 per cent increase. The city of Reading shows an increase of \$449,755, or 650.6 per cent. Fifteen other cities and boroughs that reported increases for January, 1929, and their respective amount and per cent of increase are as follows:

City or Borough	Amount of Increase	Per cent Increase
Allentown	\$50,050	90.4
Altoona	37,268	59.0
Bristol	1,050	700.0
Jeannette	3,680	593.5
McKeesport	4,855	5.5
Meadville	5,600	18.7
Monessen	795	14.7
Oil City	7,650	68.3
Pittsburgh	13,065	1.0
Scranton	56,441	56.2
Sunbury	1,700	340.0
Uniontown	29,225	166.1
Washington	2,520	35.1
Wilkes-Barre	39,316	40.0
York	51,283	103.9

Two other cities, Donora and Warren, also reported increases over last year. Donora reported a building total of \$65,000 for January, 1929, as compared with no permits in January, 1928, and Warren reported a total of \$46,965 for January, 1929, as compared with one permit for work costing \$185 issued during January, 1928.

The estimated cost of building construction in the city of Philadelphia for January, 1929, is nearly \$13,000,000, or 296.4 per cent, more than the combined building total for the other 41 cities and boroughs reporting for January, 1929. In January, 1928, the building total for Philadelphia was \$2,000,000, or 32.3 per cent less than the combined total for the other 41 cities and boroughs reporting.

Any pessimistic view as to a depression in building operations during 1929 must be dispelled by the increased building operations shown for the first month of the year, if these may be accepted as an indication of building activity for the remainder of the year.

Of the 21 cities and boroughs that reported decreases in estimated costs of building construction for January, 1929, from January last year, Harrisburg shows the largest decline with a reduction of \$2,600,660, or 82.5 per cent. This large decrease for Harrisburg is due to the inclusion in last year's total for January

of a permit for the construction of the new north office building on the Capitol grounds. With this permit excluded from Harrisburg's total for January, 1928, an increase of 259.3 per cent would be shown for January, 1929.

Four other cities reporting construction decreases in January, 1929, of more than \$100,000 each are Wilkesburg \$261,000, or 88.6 per cent; Bethlehem \$233,044, or 66.8 per cent; Pottsville \$145,850, or 96.7 per cent; and Johnstown \$139,490, or 96.6 per cent.

The borough of Berwick issued permits last January totaling \$1,325 and reported no permits issued during January of this year.

The remaining 15 cities and boroughs that reported decreases in building construction for January, 1929, and their amount and per cent of decrease are as follows:

City or Borough	Amount of Decrease	Per cent Decrease
Ambridge	\$31,950	77.1
Bradford	15,700	66.8
Butler	2,000	87.0
Carlisle	16,430	55.6
Clairton	13,312	61.7
Connellsville	24,000	90.6
Duquesne	5,865	20.5
Easton	12,320	37.3
Hazleton	2,683	10.4
Homestead	4,500	39.1
Lancaster	19,225	56.3
McKees Rocks	73,350	91.7
Monongahela	100	66.7
New Castle	46,960	55.2
Williamsport	44,776	44.8

Comparable building construction data as to types of buildings to be erected or remodeled is available for 40 of the 42 cities and boroughs. Figures for Harrisburg and Reading are excluded from this tabulation because the Department does not receive detailed reports from these cities.

The large general increase in construction shown for January, 1929, affected all groups. More new residential buildings of the one-family and two-family types are to be erected, but a lesser number of multi-family dwellings. The average cost of all new residential buildings for January, 1929, is \$8,068, or 14.5 per cent higher than for January, 1928. This increase in the average cost is due principally to the permits granted for the erection of 9 multi-family dwellings with an estimated cost of erection of over \$200,000 each. The total amount to be expended for the erection of new non-residential buildings in January, 1929, is \$10,372,000, or 304 per cent, more than for January last year. Churches, office buildings, and schools are three classes of new non-residential buildings where the amounts to be expended during January, 1929, are greatly in excess of those for January, 1928, but the class showing the largest increase is stores and other mercantile buildings where the amount is \$10,000,000 more than last year.

More extensive remodeling is indicated by the January, 1929, permits, since the average cost of remodeling per building is \$2,478 for January, 1929, as compared to \$1,333 for January, 1928. Permits for the installation of boilers, elevators, etc., also show nearly a \$300,000 increase over January, 1928.

INCREASED USE OF METAL LATH FOR 1928

The shipments of metal lath for 1928 showed an increase of 17.15% over the previous year. This reflects the tendency of modern builders and realtor operators to get away from the shoddy construction that was so common immediately after the war, and which in the course of less than a decade has proven not satisfactory nor stable enough to warrant the

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Appreciation of fireproofing qualities of metal lath and a general tendency toward more fireproof construction is also an important part in this increase, but the greatest increase is attributed to the greater respect for plastering as a result of the Associated Metal Lath Manufacturers' campaign for "Better Plastering."

It is expected that the increase will be continued during the coming years as the Associated Metal Lath Manufacturers are about to embark in a more intensive promotion campaign.

Revolutionary changes in methods under which eight billion dollars annually is spent in the United States for construction operations were advocated by a convention of the Associated General Contractors of America held in Chicago last week. Affecting both public and private projects, these changes are being sought as a means of placing the construction industry "upon a more business-like basis," according to D. A. Garber, Washington, D. C., general manager of the sponsoring organization.

Mainly, the proposals are directed against unscrupulous and incapable builders whose operations saddle direct losses upon the building public through defaults and delays, the convention was told by Alan J. Parrish, Paris, Ill. "In addition," Mr. Parrish said, "these 'skin-deep contractors' upset the entire industry by forcing their way into competition with responsible builders. In short, the industry is loaded down with men who can't make money for themselves and prevent others from handling work on sound business principles."

In the field of private construction operations, the convention advanced a plan under which bankers, manufacturers and jobbers of construction equipment and materials, general contractors, bonding agencies, sub-contractors and other elements of the industry will cooperate to eliminate extension of false credits.

George B. Walbridge, Detroit, stated this plan already had been successfully operated in several large cities and outlined methods under which the system is to be made nation-wide in scope. "As matters stand," declared Mr. Walbridge, "it is almost possible for a green grocer with a few dollars in his pocket to put in a ridiculously low bid, secure the award and have all the construction equipment and materials he can think of placed in his hands."

"In other words, present chaotic conditions place men with little experience and virtually no ability to pay their bills in obviously unfair competition with men possessing responsibility and financial standing."

The campaign for improvement of affairs relating to highway and public works construction holds quite the same objective as the movement initiated to stabilize private building.

It is proposed that public officials determine the abilities and financial status of prospective bidders before receiving any offers. This is in contrast with the generally prevailing method under which qualifications are studied after the bids are made.

S. M. Williams, Washington, D. C., declared the adoption of the plan throughout the country would eliminate nine-tenths of the defaults and delays now experienced in handling highway and public works operations. He quoted federal highway officials as stating recent use of "pre-qualification" has encouraged competition by attracting bidders who previously refused to make offers rather than attempt to offer prices lower than those submitted by incapable or irresponsible persons.

H. S. Sisson, former State Highway Commissioner of New York, declared public savings would be gained and the construction industry would be stabilized if "the financial standing, business character and past records of bidders" were studied in advance by public officials.

HOME WITHOUT A CHIMNEY NOW A REALITY

The electrically-heated home, without chimney or coal bin, is now a reality. Homes and buildings in a half dozen cities are being successfully heated by this means this winter, Chester I. Hall, president of the Hall Electric Heating Company of Philadelphia, has stated. Mr. Hall developed this new method of heating while a research engineer of the General Electric Company, in charge of its experimental laboratory at Fort Wayne, Ind.

The method consists of heating large thermal storage tanks of water, using electric current only at night, when it can be obtained from the utility at the lowest cost, and releasing this stored heat within the home as required. The same plan, either in conjunction with the home-heating system or independently, can be used to supply the domestic hot water needs. The Hall heating system can be installed as a hot air, hot water, vapor or double-pipe system. The charging or storage of heat is substantially the same in all cases, the only difference being in the manner of discharging the heat.

"Electric heating is no longer experimental, and the cost is reasonable," says Mr. Hall. "This is the second winter in which the system has been used in Fort Wayne, and from data received from that city, as well as from other restricted territories in which the company is operating, I feel sure that it is firmly estab-

lished. I believe that the average eight-room home in the central belt of states, comprising Pennsylvania, Ohio, Indiana and Illinois, can be heated electrically for approximately \$350 per winter, provided, of course, the building is well insulated.

"Heat by electricity is not the product of combustion, and does not consume oxygen. The amount of oxygen in the air, ordinarily used to a great extent by coal, oil, gas or wood fires, is therefore left intact and the products of combustion, such as smoke, gases, soot and ashes, do not exist."

Instead of transporting household fuel, in many instances thousands of miles, heat or power is generated at the power station and conveyed to customers in the same way electric current is conveyed for lighting homes, heating ranges, cooling refrigerators, and operating other electric appliances.

"To the home owner, the safety factor is perhaps the most important," Mr. Hall pointed out. "As there is no combustion in the house; there is, consequently, no danger from fire. It is noiseless and all energy purchased is delivered into the house as heat. It is simply the release of stored heat controlled by a thermostat. From the housewife's viewpoint it reduces to a minimum the cleaning of drapes and the need of redecorating, for the customary ashes, smoke and soot are entirely eliminated. In addition there is also the absence of obnoxious and dangerous gases and odors, which often come from other methods of heating."

The mechanical features of the invention were developed by Mr. Hall in the laboratory of the General Electric Company in the past seven years. The idea was first submitted to a year's practical test in an average house before commercial installations were made in various localities. The first sample installation consisted of a water tank containing electric heating elements. From an insulated air space around the tank the radiated warm air was distributed by pressure to various parts of the home, as necessity demanded. Automatic timers turned on the electric current during the off-peak period of the power company, and when the water became heated to proper temperature the electric current was automatically turned off. With temperatures as low as five degrees below zero this home was kept comfortably warm.

"The general principle," says Mr. Hall, "is similar to that of the thermos bottle. In substance, heat is simply stored in a well-insulated large thermos bottle and is drawn off by the customer when he has need for it."

The Hall Electric Heating Company was formed a year ago. The General Electric Company, and associates, hold a substantial interest in the company and manufacture the control and electrical

parts. The engineering, development and sales work of the Hall Company are carried on at its main office in Philadelphia.

WOMEN INVEST HEAVILY IN HOME VENTILATION

Sale of Exhaust Fans Play Important Part in Electrical Industry

Electrical ventilation of the home is coming into its own. The figures prove it.

In its annual report of the industry, a nationally known electrical magazine says that 1,223,000 homes in the United States are equipped with electric refrigerators, or 6.4 per cent of the total number wired for electricity.

But the same report directs attention to the fact that 29.5 per cent are supplied with electric fans of which a large proportion are ventilating fans used for exhausting vitiated air and odors out of kitchens, damp basements and hot attics. American housewives are investing more liberally in the maintenance of healthful conditions and comforts in the home through electrical control of air conditions, these statisticians have learned. The woman in the home has found that it is more economical to use a fan to drive greases and odors out of the kitchen than to allow them to drift back into other rooms of the house and to settle on draperies, curtains and furniture.

Of the 19,012,664 wired homes in this country, the survey shows that 93 per cent are equipped with electric irons, 40.7 per cent with cleaners, 30.2 per cent with washing machines, 28 per cent with toasters, 15.7 per cent with heaters, 6.4 per cent with electric ranges, and 2.5 per cent with ironing machines. Sale of electrical appliances increased greatly during 1928, the report says.

Distribution of electric ranges for the year is placed at 135,000 units, valued at \$22,175,000, compared with 110,000 in 1927 valued at \$17,600,000. Sales of electric domestic refrigerators in 1928 amounted to 468,000 units, valued at \$128,700,000 against 365,000 units valued at \$82,125,000 in the preceding year.

The number of clothes washing machines sold in 1928 was 817,107 against 775,661 the year before. Sales of irons last year totalled 3,000,000 while cleaners sold amounted to 1,200,340 valued at \$66,018,700. The big item in the national electric bill, of course, is incandescent lamps, which involved \$125,000,000 last year. Fans sold were valued at \$14,698,812.

SQUASH RACQUETS SWEEP AMERICAN ATHLETIC CLUBS

Toledo Club Installs Four Courts With Special Air Conditioning System

Like many other up-to-date athletic clubs in the larger American cities, the Toledo Club has yielded to the sweeping popularity of squash racquets and has built four courts in the basement of its building where it will be possible to play the game at any season of the year regardless of summer heat or winter chills.

William K. McColl, athletic director of the club, announces that ideal weather conditions for squash racquets are manufactured by artificial means to provide players with ample ventilation or air change. In many clubs, the courts are located on the roof or near the top of the building in order that plenty of fresh air may be obtained. In the new courts of the Toledo Club, however, air is pumped in by means of powerful ventilating fans which take the air through a filter and heating or cooling coils, according to the season, and effect a change in the air of each court every five minutes.

As great as has been the growth of squash tennis, it is frequently said around the clubs that the game is losing ground before the advance of squash racquets, according to McColl. This latter game had first been highly favored among the university graduates and has much in common with squash tennis. Like the latter game, it is played in a four-wall court with a racquet and ball. The racquet, however, is different in shape, possessing a small round head and a longer handle than the squash tennis bat. The ball is entirely different from and

lacks the liveliness of the squash tennis ball.

It is generally agreed that in squash racquets the strain upon the player is greater than in squash tennis. The best players in squash racquets are considerably younger than the champions in squash tennis.

Nevertheless, squash racquets has as great an attraction for the "old grad" as has squash tennis, and it has been gaining a stronghold in New York, Boston, Buffalo, Cleveland, Detroit, Chicago, Milwaukee and many other cities as far west as San Francisco. Whereas squash tennis is confined almost entirely to New York—there are a few centers in the middle west—squash racquets has something like a national following.

Like squash tennis and squash racquets, court tennis and racquets are played with a ball and a racquet, but there the similarity pretty nearly ends. Racquets is a game of terrific hitting, played on a slate court where only the hardest can survive. The swish of the long handled racquet, the crack of the ball against the slate walls, the cry of the marker, "Play" after every stroke and the cyclonic action going on in the court all make for an exciting hour.

Court tennis is a complicated game that remains unintelligible to the spectator even after he has watched it for years. Only the man who plays the game can hope to have a thorough understanding of its fine points. It is more like lawn tennis than any other game, for a net divides the court and the scoring is similar to the system used in lawn tennis. But the "railroad" service, the penthouse, the dedans, the tambour, the grille, the various "galleries" and the chases make it mystifying to the novice.

A GOLD STRIKE FOR DEALERS

The General Fuel Dealer Has Great Advantages Over Those Handling Only Coal and Wood.

BY FRANK E. FISKE

The rapidity with which the oil heating industry has grown and developed in

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America within the past two years has brought coal and other fuel dealers face to face with a problem of great importance, not only to them, but to the oil heating industry as well. And the problem is this:

Should the coal dealer consider the new oil heating process as a competitor and fight its constantly growing popularity? Or, —

Should the coal dealer accept this new arrival as an additional part of his business, and capitalize on its possibilities?

After all, one group argued, the average coal dealer was not necessarily a merchant for any one particular kind of fuel, but rather a dealer in all fuel. Therefore, why should he not give his customer the benefit of the same kind of efficient service on fuel oil as had been given on coal, wood, coke or anything else included in his line of wares.

There existed also, however, another group of coal men who were not enthusiastic about installing the equipment necessary to take care of this new development. Oil seemed to them to be a stepchild which was being forced upon them by a lot of unpopular relatives—in this case, the oil men.

For a while the controversy raged within the coal business, with both sides scoring many points, but with neither side conceding victory to the other.

The result was that some of them added oil to their list, while others continued on the old scale. But progress seldom permits obstacles to stand in its way for very long.

As oil burners were improved, the use of this new mode of heating rapidly gained popularity. Particularly was this true in the large apartment buildings, office buildings and other places where an automatically controlled temperature proved essential to the health and general comfort of many thousands of people. The demand for oil burners among individual home owners was slower to materialize, but nevertheless just as damaging to the coal dealer when it did arrive.

The coal dealers who realized the possibilities in the sale of fuel oil saw their volume of business continue and grow. When customers of years standing abandoned the older methods of heating and took on the new way, these dealers were in the position of being able to furnish them with the same kind of satisfactory service they had been accustomed to. As a matter of fact, these dealers found that the delivery of fuel oil offered greater possibilities for efficiency, and, therefore, greater financial returns than some of the other fuels they were handling.

But still, a large number of coal dealers remained adamant and continued to fight oil rather than adopt it.

In the final analysis, there seems to be

no practical reason why a coal dealer should not become a fuel dealer. When the automobile graduated from a pleasure vehicle to a necessity, the old-time buggy builder who was on his toes abandoned the old for the new, and began to build automobile bodies. The best testimonial to the wisdom of this movement is the millions which have been made and are being made in this line of endeavor.

Brewster & Locke, of New York; Durham, of Philadelphia; Judkins, of Merrimac, Massachusetts; and probably most notable of all, General Motors, are all companies which graduated from the buggy-building stage to what they are today.

It might be interesting to recall that in 1903 what is now General Motors was known as The Durant-Dort Carriage Works, and later The Flint Wagon Works. W. C. Durant was its president, at a salary of twenty-five dollars per week.

The same situation applies to every other new product that a fickle yet progressive public demands.

There is the example of the radio, electric refrigerator, the washing machine and countless others. And in nearly every case, the dealer in products which preceded these new innovations adjusted his business to meet the new demands made upon it. That is, the successful ones did.

According to figures compiled by the Oil Heating Institute, 422,700 oil burners were in domestic use in the United States on January 1, 1929. This figure covers the number of oil burners in operation in private homes and small apartment houses. Based on figures compiled by the United States Bureau of Mines in its national survey of fuel oil distribution, in co-operation with the American Petroleum Institute, it is estimated that 988,596,000 gallons of oil will be consumed in 1929 by oil burners for domestic use. On January 1, 1929, 33,500 oil burner installations were in operation for commercial heating, i. e., in large apartment buildings, office buildings, theatres, schools and similar structures. It is estimated that 777,000,000 gallons of oil will be used for this commercial heating. Of all the oil consumed in the United States in 1928 it is estimated by the Oil Heating Institute, that 9.90% was used on oil heaters. Of this amount, 4.99% was used for domestic heating, and 4.91% for commercial heating.

This means, of course, that someone must deliver to these customers a sufficient quality of fuel oil to keep these heaters in operation. Close to a half-million potential customers for the coal dealer who sees fit to modernize his business.

At the rate that oil heaters are being demanded it will not be long before this demand is doubled and trebled.

Health authorities have concluded that an even temperature in the home, office, theatre, etc., is far more conducive to good health than the uneven temperatures which the old style coal furnace was responsible for. Everywhere they are urging automatic control of heat in the interest of avoiding and preventing respiratory diseases, such as influenza, pneumonia, colds and others.

On the other hand, city officials and health experts have been devoting considerable time to the devising of ways and means of eliminating or abating, if possible, the so-called smoke nuisance. In connection with these studies, it has been found exceedingly difficult to do away with those great clouds of smoke that seem to envelop most cities, regardless of what kind of coal is used and regardless of the degree of care practiced in the utilization of that fuel.

The answer lies in the findings of the hundreds of apartment house and theatre owners who have contributed their share toward abatement of the smoke nuisance by installing oil burners.

Add to these favorable circumstances the fact that architects and builders who are leaders in their respective lines of endeavor have found that the installation of oil burners eliminates the necessity of building a cellar on the average private home, thereby reducing the cost of that establishment, and you arrive at the conclusion that the oil burner is not only an established proposition, but one that has become a necessity to a degree far more important than is at first apparent.

The coal dealer who is wide awake to his possibilities knows what tremendous progress has been made in the development of the fuel oil business. He knows that distribution problem has been given much time and study. He knows what the situation is in his local community. If he does not know, very little research work, will put him in touch with the answers to these questions.

The business of selling oil can be made just as profitable as the business of selling coal, or any other product, or commodity, for that matter. Success in the sale of anything depends on the business acumen of the dealer and his methods of doing business.

Heating with oil has long since passed from the experimental stage. It is an established national practice, and one that is constantly growing.

And the coal dealer who continues to neglect the opportunity afforded him through the oil burner is placing himself in exactly the same position as the horse trader who says the automobile or the radio is just a passing fad.

Many a man would do a better job if he didn't know about putty.—Ex.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

S. Libman, 629 College Ave., Pittsburgh, Pa.
Malia, Thos. J., 226-32 W. Mentor St., Phila.
Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.
New Jersey Cast Stone Co., Vineland, N. J.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.

DOOR BEDS

Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

FIRE-PROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING-COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
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Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

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GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

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Strandwitz & Scott, Inc.,
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HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co., 2500 Duncan St., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

Whartenby, Harry A., 1823 Brandywine St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Well, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

LUMBER

Ketcham, Howard, 3rd and Girard Ave., Phila.

MARBLE

Frank W. Butterworth, 1518 Walnut St., Phila.

MARBLE AND MOSAIC

Belf Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

MASON BUILDER

D'Lauro, John, 7732 Ardleigh St., Phila.

METAL DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

METAL LATH

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

METERS

Phila. Meter Co., Real Estate Trust Bldg., Phila.

PAVING BRICKS

Ketcham, O. W., 121 N. 18th St., Phila.

PHOTOSTATS

Weber, F., Co., 125 S. 12th St., Phila.

PILES

Foundation & Construction Co., 1320 Race St., Phila.

PLASTER (Colored)

California Stucco Products Co., 1316 Olive St., Phila.

PLASTER BOARD

Keen Bros., Merchantville, N. J.

PLASTERERS

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

PORCH ENCLOSURES

Malia, Thos. J., 226-32 W. Mentor St., Phila.

RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

RADIATOR SHIELDS AND CABINETS

Acme Radiator Shield & Inclosure Co.,
2206 Chestnut St., Phila.

J. D. Gerken Co., 1015 Chestnut St., Phila.

REFRIGERATORS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

REINFORCING BARS

Milton Mfg. Co., Milton, Pa.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Penn Steel Service Co., Fuller Bldg., Phila.

ROAD MACHINERY

Service Supply Corp., 20th & Venango Sts., Phila.

ROLL SCREENS

American Metal Weatherstrip Co., 2115 Diamond St.
Malia, Thos. J., 226-32 W. Mentor St., Phila.

ROOFING

John Nacey Co., 7254 Paschall Ave., Phila.
Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING MATERIALS

MacGarvie, James B., Magnolia, N. J.
John Nacey Co., 7254 Paschall Ave., Phila.
Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING SLATE

Chapman Slate Co., Bethlehem, Pa.

ROOFING TILE

Hood Tile Co., S. E. Cor. Chestnut & 13th Sts., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

SAFETY TREADS (Grating)

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

SAND AND GRAVEL

Charles Warner Co., Union Bank Bldg., Phila., Pa.

SCAFFOLDING

Patent Scaffolding Co., 2835 Bridge St., Phila.

SCREENS (Fly)

Malia, Thos. J., 226-32 W. Mentor St., Phila.

SEPTIC TANKS

Philadelphia Septic Tank Co.,
1129 Glenwood Ave., Phila.

SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

SHEET METAL WORK (General)

Strandwitz & Scott, Inc.,
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SHEETROCK (Wall Board)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

SHELVING (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

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Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

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Richard W. Jefferis Co.,
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David Lupton's Sons Co.,
Allegheny Ave. and Tulp St., Phila.

STONE

St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

STUCCO MANUFACTURERS

California Stucco Products Co., 1316 Olive St., Phila.

Mayflower Stucco Co.,
Chestnut Hill, Phila., and Plymouth Meeting, Pa.

SURETY BONDS

Insurance Co. of North America, 1600 Arch St.

Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

TERRA COTTA (Architectural)

Atlantic Terra Cotta Co., Otis Bldg., Phila.

Conkling-Armstrong Terra Cotta Co.,
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Ketcham, O. W., 121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

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Belf Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Hood Tile Co., S. E. Cor. Chestnut and 13th Sts., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

TRANSITS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Well, J. H., Co., 1315 Cherry St., Phila.

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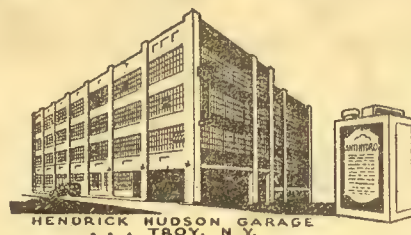
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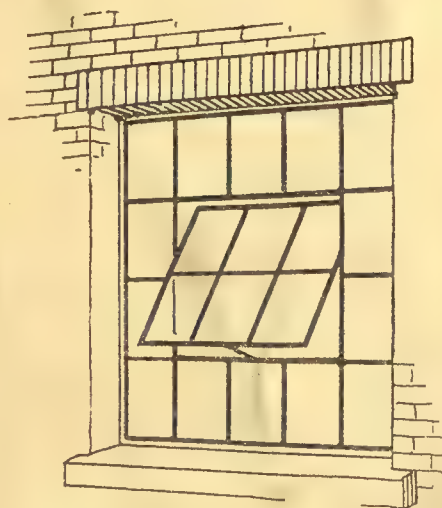
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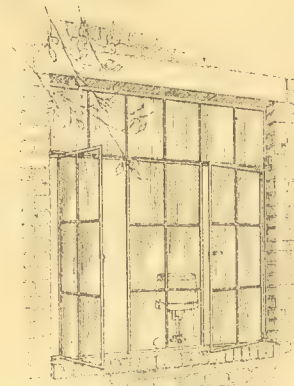
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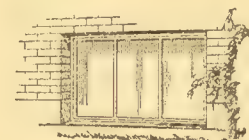
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 12
March 20, 1929

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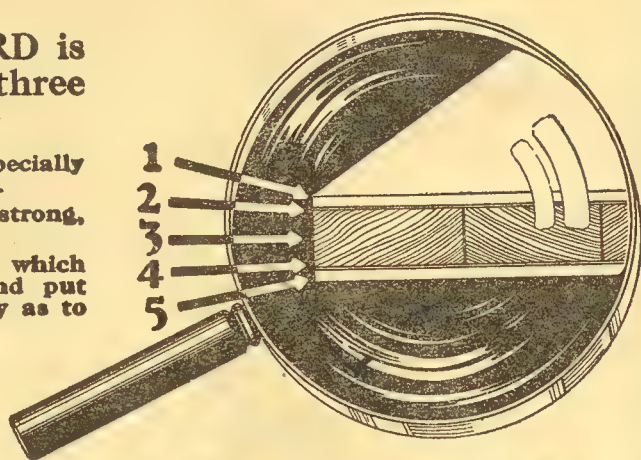
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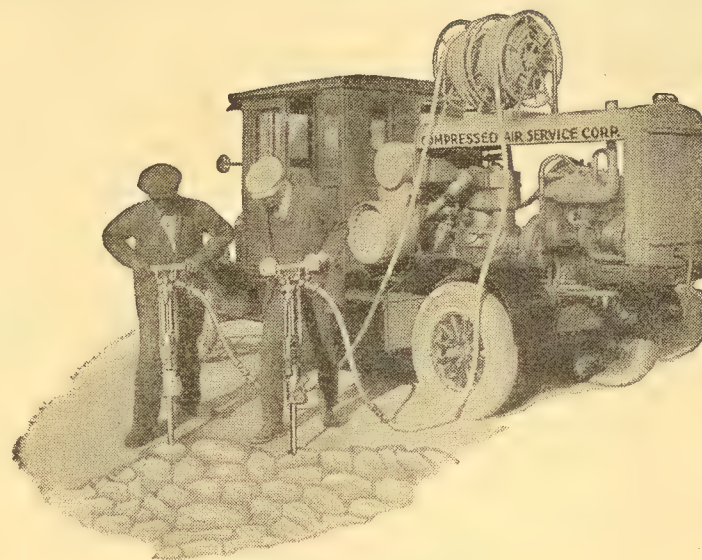
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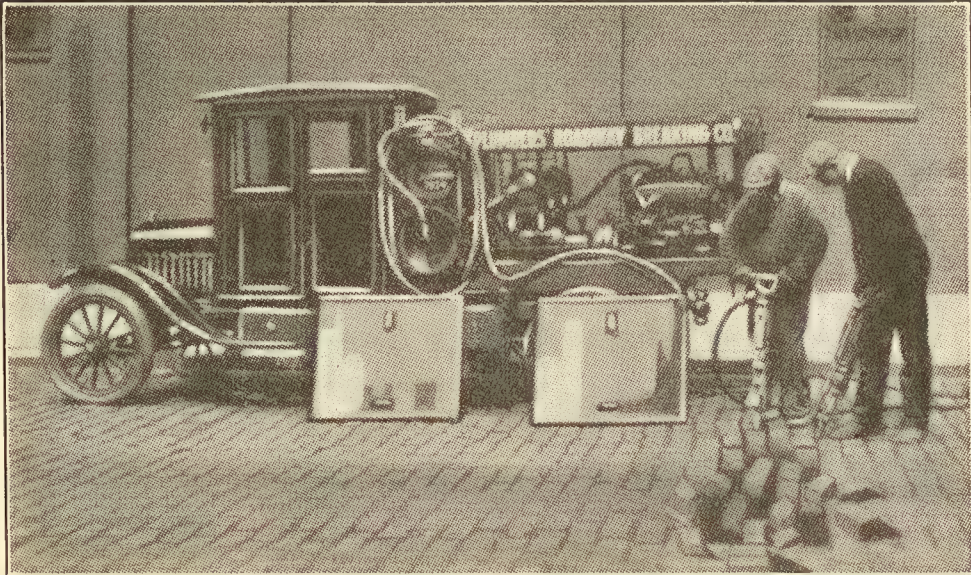
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VOLUME XLIV

Engineering and the Building Trades

PHILADELPHIA

Number 12

March 20, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Service Station, Northwest Corner Tabor and Mascher streets, Philadelphia. Plans in progress. Architect, E. A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Charles Kahn, Provident Trust Building, Philadelphia. Size of lot 54x70 feet.

Store (alts.), Southeast Corner Ninth and Locust streets, Philadelphia. Plans in progress. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, 4 stories, general alterations, new front, copper bars, plate glass, metal ceilings.

Bank, Shop, Apartments, \$3,000,000, Olney, Broad and Chew streets, Philadelphia. Plans in progress. Architect, Ralph Bencker, Thirteenth and Chestnut streets, Philadelphia. Owner, William Freihofer, Sixteenth and Indiana avenue, Philadelphia. Steel, concrete, brick, stone, 15 stories, 209x150 feet, will contain swimming pool, bowling alley, billiard room, recreation building, subway entrance, etc.

Store and Apartment (alts.), Old York road and Lycoming avenue, Philadelphia. Plans in progress. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, name withheld. New front, copper bars, metal ceilings, hot water heat, slag roof.

Manufacturing Building, Roberts and Wayne avenues, Wayne Junction, Pa. Plans in progress. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Brown Instrument Co., on premises. Brick, steel, 2 stories.

Stores (5) and Apartments, Sixty-sixth and

Ridley avenue, Philadelphia. Plans in progress. Architect, private plans. Owner, Otto Steinacker, 3958 North Fifth street, Philadelphia. Brick, stone, 2 stories, 15x55 feet, slag roof, oak floors, hot water heat, electric light, tile work.

Apartment and Garage, Sedgwick and Emlen streets, Philadelphia. Owner will take sub-bids in one week. Architect, private plans. Owner, Elmer Hampton, 6506 North Eighth street, Philadelphia. Brick, steel, 4 stories, 150x94 feet, 32 apartments, slag roof, hardwood floors, vapor heat, electric light, tile work. Garage, brick, reinforced concrete, 1 or 2 stories, 75-car capacity.

Apartment Building, Thirty-sixth and Chestnut streets, Philadelphia. Architect will be ready for bids in 10 days. Architect, Max A. Bernhardt, 127 North Eighteenth street, Philadelphia. Owner, name withheld. Brick, steel, terra cotta, 4 stories, 55x130 feet, slag roof, hardwood floors, elevators, cast stone, vapor heat, electric light.

Residences (78) and Garages, Tacony, Philadelphia. Owner taking sub-bids. Owner, Otto Steinacker, 3958 North Fifth street, Philadelphia. Brick, stone, 2 stories, 16x34 feet, slag roof, oak floors, hot water heat, electric light, tile work, colored tile and plumbing.

Apartment House, 301 Tabor road, Philadelphia. Owner taking sub-bids. Architect, private plans. Owner, J. Charles Yundt, 301 Tabor road, Philadelphia. Brick, cast stone, steel, 4 stories and basement, 42x125 feet, slag roof, oak and pine floors, steam heat, electric light, tile work, metal lath, orna-

mental iron work.

Residences (16), Castor road and Rhawn street, Philadelphia. Owner will build. Work about to start. Architect, private plans. Owner, J. Charles Yundt, 301 North Tabor road, Philadelphia. Brick, steel, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work.

Residences (36) and Garages (36), Sixty-sixth and Ridley avenue, East of Fifth street, Philadelphia. Owner taking sub-bids. Architect, private plans. Owner, Otto Steinacker, 3958 North Fifth street, Philadelphia. Brick, stone, 2 stories, 16x37 feet, slag roof, oak floors, colored tile and plumbing, hot water heat, electric light, tile work.

Buildings, Milner and Bleigh streets, Philadelphia. Consulting architect receiving sub-bids. Architect, private plans. Consulting architect, H. B. Tobias, Otis Building, Philadelphia. Owners, Girard Smelting & Refining Co., Tioga and Richmond streets, Philadelphia. Brick, steel, corrugated iron, concrete footings, foundations, fire brick, equipment, 95x112 feet, 25x50 feet, 50x120 feet, 60x200 feet.

Residences (52), Spring avenue and Ashbourne road, Ashbourne, Pa., \$25,000-\$30,000. Owner taking sub-bids on several houses, work to start on the first in a week. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Robert S. Feeney, J. Dallas, Elkins Park, Pa. Stone, cinder block, stucco, 2½ stories, hot water heat, vapor heat, slate or shingle roof, hardwood floors, electric light.

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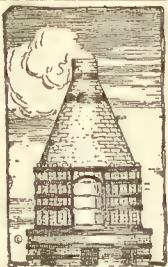
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avenue, Philadelphia. Architects will take bids. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Oak Lane Service Garage, David N. Mitchell, on premises.

Office Building, Main street, Manayunk, Philadelphia. Architect taking bids due March 25th. Architect, Ralph J. Lawrence, East Gates street, Roxborough. Owners, S. S. Keely & Son, Main and Umbria streets, Philadelphia. Brick, 2 stories and basement, 57x29 feet, bond, excavation, waterproofing, ornamental terra cotta, asphalt floors, structural steel, iron work, plastering, granite, plumbing, electric work, terrazzo floors, slag roof, maple floors, cement work.

Office Building, 4756 Richmond street, Philadelphia. Architect taking bids due as soon as possible. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, David Brook, care of architect. Brick, east stone, 1 story, 27x170 feet, slag roof, cement and pine floors, rolled steel sash, ornamental iron work.

Store and Residence, 1236 South Second street, Philadelphia, \$10,000. Architect, Fred N. Greisler, Walnut lane below Johnson street, Philadelphia. Owners, Feldman Realty Co., Fifteenth and Locust streets, Philadelphia. Brick, 2 stories, 17x60 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owners taking sub-bids and general bids.

Store Building, Sixty-ninth and Ludlow streets, Philadelphia. Architects taking bids due March 22nd. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1424 South Penn Square, Philadelphia. Brick, steel, 1 story and basement, 181x112 feet, cement floors, bond, excavating, reinforced concrete work, cinder concrete block (Straub), tile floors (Bacholder-Wilson Co.), architectural terra cotta, dampproofing (Concrete Waterproofing Paint Co.), caulking (Ev-Air-Tight Caulking Co.), composition roof (John Mansville, Carey or Barrett), kalamein door and trim (Reliance Fireproof Co.), hardware, carpentry and mill work, oak and pine floors, metal lath, plastering, area gratings (Kerlow Steel Flooring Co.), electric work, plumbing, wrought iron pipe (Reading), steam heating, H. B. Smith boiler, radiators (American National). (Specification report.)

Building, 1614 Summer street, Philadelphia. Architect taking bids due as soon as possible. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, name withheld. Brick, limestone, steel, 2 stories and basement, 28x110 feet, slag roof, cement and pine floors, plumbing, steam heat, electric light, metal lath, tile work, pine floors,

plumbing, steam heat, electric light, metal lath, tile work, bond, casement windows, ornamental iron work, demolition, excavation, granite sills.

Tunnel Connections, Twenty-first and Girard avenue, Philadelphia. Architect, John T. Windrim, Twelfth and Chestnut streets, Philadelphia. Engineers, Day & Zimmerman, Mr. Stanbery, 1401 Arch street, Philadelphia. Owners, Girard College, Girard and Corinthian avenues, Philadelphia. Brick, reinforced concrete, stone, 7x7 feet, paving, grading, cement floors, hollow tile, dampproofing, ornamental iron work. Engineers taking bids.

Residences (30), \$126,900. 301-29 and 300-28 Godfrey avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Herman Britsch, 523 Nedro avenue, Philadelphia. Brick, 2 stories, 16x38 feet, 12x12 feet, hot water heat, electric work.

Residences (25), \$108,900. Permit issued. North side Cottman street, East of Walker street, Philadelphia. Architect, private plans. Owner, Samuel Rochlis, 1518 North Fifth street, Philadelphia. Brick, 2 stories, 16x36 feet, 13x18 feet, slag roof, electric work.

Residences (14), \$50,400. Robbins avenue, West of Taekawanna street, Philadelphia. Permit issued. Architect, private plans. Owner, Edgar N. Davenport, 6150 North Seventh street, Philadelphia. Brick, 2 stories, 15x38 feet, 12x13 feet, hot water heat, electric work.

Manufacturing Building (add.), \$23,000. North side Thayer street, West of Tenth street, Philadelphia. Permit issued. Owners, H. S. Getty & Co., on premises. Brick, 2 stories, 41x72 feet. Contract awarded Northern Construction Co., 5302 North Fifth street, Philadelphia.

Residences (31), \$131,800. Sparks street, West of Sixteenth street, Philadelphia. Permit issued. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, John N. Snyder & Son, 1245 Alcott street, Philadelphia. Brick, 2 stories, 15x29 feet, 11x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (20), \$120,000. Wadsworth street, from Ardleigh to Anderson street, Philadelphia. Permit issued. Architect, private plans. Owner, C. H. B. Mercer, 1611 Walnut street, Philadelphia. Brick, 2 stories, 18x16 feet, 22x24 feet, slag roof, hardwood and pine floors, electric light.

Residences (2), \$20,000. Sherman street, North of Phil-Ellena street, Philadelphia. Permit issued. Architect, J. E. Fieldstein, 112 South Sixteenth street, Philadelphia. Owner, Jacob Sarshik, 5819 Wayne avenue, Philadelphia. Stone, 2½ stories, 21x49 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (2), \$8,000. Silverwood street, North of Leverington street, Philadelphia. Permit issued. Architect, private plans. Own-

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er, G. A. Klugh, 4627 Silverwood street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Pump House, \$5,000. North side Penrose Ferry road, East of Schuylkill avenue, Philadelphia. Permit issued. Owners, Gulf Refining Co., P. O. Box 1567, Philadelphia. Steel, brick, 1 story, 52x21 feet.

Residences (44), Wanamaker street, North of Lebanon avenue, Philadelphia, \$178,000. Architect, private plans. Owner, Max Shapiro, 435 Land Title Building, Philadelphia. Brick, 2 stories, 16x32 feet, 12x15 feet, hot water heat, electric work, hardwood and pine floors, slag roof. Permit issued.

Residences (14), Loretto street, South of Lansing street and Hartel street, East of Frontenac street, Philadelphia, \$70,000. Owners, Castor Highlands Development Co., Castor avenue and Hartel street. Brick, 2 stories, 16x47 feet and 16x25 feet and 18x24 feet, slag roof, hardwood and pine floors, hot water heat. Permit issued.

Residences (2), Dungan road, North of Shelmire street, Philadelphia, \$5,000. Architect, E. Fred Kemner, 7319 Rising Sun avenue, Philadelphia. Owner, Paul Furst, Southwest Corner Cottman and Lawndale streets, Philadelphia. Brick, 2 stories, 14x23 feet, 16x21 feet, hot water heat, electric light. Permit issued.

Residences (14), \$77,000. North side Fuller street, West of Rowland street, Philadelphia. Permit issued. Architect, private plans. Owner, Hyman Korman, Oxford avenue and Leveck street, Philadelphia. Brick, 2 stories, 16x24 feet, 18x26 feet, hot water heat, electric work.

Garage, \$5,000. 862-64 North Seventh street, Philadelphia. Permit issued. Architect, private plans. Owners, Central House Wrecking Co., Southwest Corner Twelfth and Spring Garden streets, Philadelphia. Brick, 1 story, 35x100 feet, slag roof, cement floors, electric work.

Sunday School, \$12,000. East side Twenty-sixth street, South of Wharton street, Philadelphia. Permit issued. Architect, private plans. Owner, care of William A. Pelosi, 2531 Wharton street, Philadelphia. Brick, 1 story, 60x120 feet, slag roof, electric lighting.

Gasoline Station, \$3,050. Southwest Corner Fifth and Somerville streets, Philadelphia. Permit issued. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, 26x34 feet.

Residence, \$6,000. West side Palmetto street, North of Rhawn street, Philadelphia. Permit issued. Contract awarded George A. Innes, 7340 Whittaker street, Philadelphia. Architect, private plans. Owner, Wesley Hall,

3014 North Fifth street, Philadelphia. Brick and frame, 2 stories, 31x23 feet, slag roof, electric work.

Residences (23), \$57,000, West side Scattergood street, North of Frontenac street, Philadelphia. Permit issued. Architect, private plans. Owners, Smith, McGowan & Donnelly, 813 East Allegheny avenue, Philadelphia. Brick, 2 stories, 15x27 feet, 11x10 feet, hot water heat, electric work, slag roof, hardwood and pine floors.

Residences (43), Unruh street, East of Sacket street, Philadelphia. Permit issued. Architect, private plans. Owner, Wm. B. Davenport, 6612 Wayne avenue, Philadelphia. Brick, 2 stories, 16x29 feet, 12x12 feet, hot water heat, electric work.

Residence, \$4,000. Architect, private plans. Owners, Feldman Realty Co., 225 South 15th street, Philadelphia. Location: 1236 South 2nd street, Philadelphia. Permit issued. Brick, 2 stories, 16x31 feet, 13x11 feet, hot water heat, electric light, slag roof, pine floors.

Apartment House, Sedgwick and Emlen street, Philadelphia. Owner taking sub-bids. Architect, private plans. Owner, Elmer B. Hampton, 6506 North 8th street, Philadelphia. Brick, stone, steel, 4 stories, 94x150 feet, 32 apartments, slag roof, hardwood and linoleum floors, kitchen and laundry equipment, vapor heat, electric light, oil burners, tile and marble work, kalamein doors, ventilators, refrigeration, incinerators.

Residence, Woodbine and Bryn Mawr avenue, near Cynwyd, Pa. Plans in progress. Details undecided. Architects, Durham & Irvin, 12 South Broad street, Philadelphia. Owner, Dr. Russell S. Boles, 53rd and Overbrook avenue, Philadelphia. Stone, 2½ stories.

Store Building, Ridge avenue and Ripka street, Philadelphia. Owner will build, ready for sub-bids. Architect, private plans. Owner, Benj. Calvary, 6100 Ridge avenue, Philadelphia. Brick, steel, 1 story, 50x27 feet, slag roof, pine floors, hot water heat, metal lath, plumbing, metal ceilings.

Bank, temporary address to be 1508 Chestnut street, Philadelphia. Charter applied for, work contemplated. Owners, Adelphia Bank & Trust Co., M. F. Middleton, Jr., Philadelphia Stock Exchange, President, Chairman of Building Committee.

Garage, 215 Snyder avenue, Philadelphia. Owner taking bids. Architects, Penwood Co., City Center Building, Philadelphia. Owner I. Denneberg, on premises. Brick, reinforced concrete, 2 stories, 48x100 feet, slag roof, cement floors, elevators, roof ventilators, steam heat, electric light, rolled steel sash and skylights, ornamental iron work.

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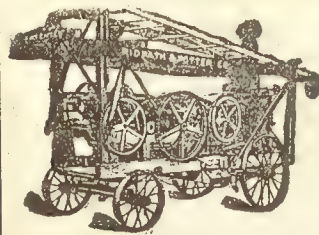
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Philadelphia. Owners taking bids due March 28th. Architect, private plans. Owners, Reading R. R., 12th and Market streets, Philadelphia. Shop and garage, 1 story, 117x45 feet, boiler room and office, 1 story 26x28 feet, coal trestle and concrete silos (7).

Loft Building, 1016-18 Cherry street, Philadelphia. Wm. Steele Sons Co., 15th and Cherry streets, Philadelphia, taking sub-bids due March 22nd. Architect, Arthur Love, Juniper and Walnut streets, Philadelphia. Owners, Cherry Building Corporation, care of

architect. Brick, reinforced concrete, 8 stories and basement, 45x65 feet, slag roof, cement floors, steam heat, electric light.

Residences (13), Store (1), Northeast corner 68th and Wyncote avenue, Philadelphia. Owners taking sub-bids. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, Gollub & Green, 6870 North 20th street, Philadelphia. Brick, 2 stories and basement, 15x40 feet, slag and tile roof, hardwood floors, cement work, garages in basement, hot water heat, electric light, metal lath, tile work.

wrought iron pipe (Byers or Reading), vacuum heat (Dunham), boiler (Mills or equal) (Ventilation oil burners), electric work.

Building (alts.), Southeast Corner Fifth and Chestnut streets, Philadelphia. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Drexel Building, Fifth and Chestnut streets, Philadelphia. Demolition, excavation, reinforced concrete, granite and marble work, brick work, hollow terra cotta, bronze work, slag roof (Barrett), dampproofing (Toch Brothers), vault doors and frames, Campbell metal windows, metal lath, plastering, painting, glazing, tile work, hardware (plumbing, heating and electric reserved).

Residence and Store, 8611 Germantown avenue. **Store (alts.)**, 8609 Germantown avenue, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owner, C. A. Hunsberger, 8609 Germantown avenue, Philadelphia. Brick, steel, 2 stories and basement, 78x18 feet, demolition, excavation, cement and concrete work, stone foundations, bluestone, iron work, incinerator, iron stairs, slag roof, asbestos shingle roof, tile roof, pine floors, mineralite, mill work, metal lath, plastering, tile work, hardware, electric work, plumbing, steam heat, oil burners, plumbing fixtures. Contract awarded John Roman, 414 Brighthurst street, Philadelphia.

Sales and Service Building, Southwest Corner Broad and Blavin streets, Philadelphia. Contract awarded Arey-Hauser Co., 1104 Elverson Building, Philadelphia. Brick. Architect, I. Demchick, 1701 Chestnut street, Philadelphia. Owners, Hexter Motor Sales Co., care of Max Hexter, 4624 North Broad street. Brick, limestone, granite, 1 story and basement, 70x155 feet, ornamental iron work, flagstone, Carey or built-up roof, slate floors, mill work, plastering, painting, glazing, bronze.

Garage, Rising Sun avenue and Knorr street, Philadelphia. Contract awarded William F. Koelle Co., 1633 Race street, Philadelphia. Architect, Edward Schoeppe, 1601 Spruce street, Philadelphia. Owners, Coulston & McFarland Co., 6812 Rising Sun avenue, Philadelphia. Terra cotta, brick, 1 story, 40x100 feet, gypsum slag roof, cement floors, unit steam heat, electric light.

Store (add.), 7101 Rising Sun avenue, Philadelphia. Contract awarded A. Divincent, 427 Tyson street, Philadelphia. Architects, Watts & Coscia, 1504 Locust street, Philadelphia. Owner, Nicola Vitale, on premises. Brick, 1 story, 17x18 feet, concrete roof, cement floors, electric light, waterproofing.

Alterations to Bankers' Trust Building,

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Schools (2), Washington and Thouron streets; Tabor and Foulkrod street, Philadelphia. Contracts awarded. Architect, Irvin T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education,

Nineteenth and Ludlow streets, Philadelphia. Reinforced concrete, brick, granite, steel, 3 stories and basement, 219x97 feet (plumbing, heating, electric and ventilation separate), gypsum, composition, slate roof, cement, maple and pine floors, hollow tile, safety treads, roof ventilators, metal windows, grills, waterproofing and dampproofing, architectural terra cotta, metal lath, tile and marble work, rolled steel sash and skylights, hollow metal sas hand doors, bond, floor hardener, iron work, area gratings, excavation, screen, steel partitions, linoleum floors. Tabor and Foulkrod: General, McCloskey Co., 1620 Thompson street, Philadelphia, \$409,952; heating, Philadelphia Piping & Equipment Co., 1605 Rockland street, \$44,000; electric, Industrial Electric Co., 124 East Sixty-third street, Philadelphia, \$15,190; plumbing, Jacob Bugger & Son, 2124 East Cumberland street, \$19,900. Washington and Thouron Streets: General, McCloskey Co., 1620 Thompson street, \$414,731; heating, Philadelphia Piping & Equipment Co., 1605 Rockland street, \$43,683; electric, Industrial Electric Co., 124 East Sixty-third street, \$15,190; plumbing, Jacob Bugger & Son, 2124 East Cumberland street, \$19,200.

Health Institute Building, 228 West Cheltenham avenue, Philadelphia. Contract awarded E. J. Kreitzburg, 1333 Arch street, Philadelphia. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Collins' Health Institute, on premises. Stone, steel, 2 stories, basement, 60x150 feet, bond, demolition, excavation, Indiana limestone, slag roof, rubber flooring (U. S. Rubber Co.), metal lath, plastering, tile work, waterproofing (Minmaw), painting, weather strip (Chamberlain or equal), hardware (allowance, \$500), plumbing,

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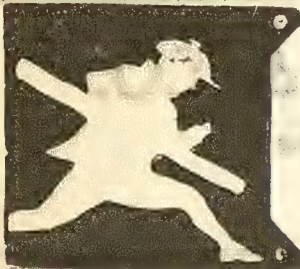
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Juniper and Walnut streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, A. M. Greenfield, Bankers' Trust Building, Philadelphia. Cutting through fire doors and moving partitions. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia.

Store and Apartment (alts.), Northeast Corner Fifty-first and Baltimore avenue, Philadelphia, \$6,000. Architect, private plans. Owner, M. Kurtzman, 5047 Baltimore avenue, Philadelphia. Brick, 3 stories, carpentry, mill work, copper bulk, plastering, electric work, yellow pine floors, cement work. Contract awarded David Wittenberg, 1519 North Thirtieth street, Philadelphia.

Residences (10), \$40,000. 2821-39 Fuller street, Philadelphia. Architect, private plans. Owners, Isard & Orleans, 504 Spencer street, Philadelphia. Contract awarded Morris Caplan, 813 South Fifth street, Philadelphia. Brick, 2 stories, 16x26 feet, 18x24 feet, slag roof, hardwood and pine floors, electric light.

Laboratory, \$8,000. 4501 Richmond street, Philadelphia. Contract awarded Koppers Construction Co., Pittsburgh, Pa. Owners, Philadelphia Coke Co., 4501 Richmond street, Philadelphia. Brick, 1 story, 27x48 feet.

Stores (alts. and add.), 5520 North Fifth street, Philadelphia. Contract awarded A. Kirpich, 3211 West Oxford street, Philadelphia. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Louis Gerstley, Jr., 4 Surrey road, Philadelphia. General alterations and alterations.

Service Station, Northwest Corner Tabor and Mascher street, Philadelphia. Contract awarded H. G. Walters, 412 North Fortieth street, Philadelphia. Architect, E. A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Charles Kahn, Provident Trust Building, Philadelphia. Size of lot 54x70 feet.

Storage Building (alts.), \$8,000. Southwest Corner Tacony and Fraley streets, Philadelphia. Contract awarded Belmont Iron Works, Twenty-second and Washington avenue, Philadelphia. Owners, Abrasive Co., on premises. General alterations.

Elevator Tower, \$5,000. Owners, Friends' Hospital, Roosevelt Boulevard and Adams avenue, Philadelphia. Contract awarded H. E. Grau Co., 2125 Cherry street, Philadelphia.

Store, \$3,300. Southwest Corner Twentieth and Kemble streets, Philadelphia. Contract awarded J. G. Piscitelli, 2081 East Cheltenham avenue, Philadelphia. Owner, E. Bianca, 2873 Kensington avenue, Philadelphia. Brick, 1 story, 30x45 feet, slag roof, electric lighting.

Residence (add.), \$4,000. 4728 Griscom street, Philadelphia. Contract awarded Rush

Brothers, 4682 Darrah street, Philadelphia. Architect, private plans. Owner, H. McCarty, on premises. Brick, 1 story add., 16x8 feet.

Residence (add.), \$3,500. 7125 Wissahickon avenue, Philadelphia. Contract awarded H. S. Oberholtzer, 5524 Pulaski avenue, Philadelphia. Owner, J. Mitchell Elliott, on premises. Brick, 1 story add., 12x28 feet.

Store and Storage Building (add.), 1108 Sansom street, Philadelphia, \$8,900. Architect, private plans. Owner, International Geneva, 1629 Ludlow street, Philadelphia. Brick, 3 stories add., 36x18 feet. Contract awarded Maurer & Co., 910 North Front street, Philadelphia.

Residence (add. and alts.), 3009 Queen Lane, Philadelphia, \$7,000. Architect, private plans. Owner, Spencer P. Hazard, 3027 Stokeley street, Philadelphia. Stone, 2 stories add., 18x26 feet, general alterations. Contract awarded James H. Walter, 168 East Walnut Lane, Philadelphia.

Residence, 7249 Hegerman street, Philadelphia, \$4,200. Architect, private plans. Owner, Antonio Dipinetto, 7218 Hegerman street, Philadelphia. Brick, 2 stories, 16x55 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded H. Fornaro, 7230 Van Dyke street, Philadelphia.

Storage Building, 1326 North Watts street, Philadelphia, \$3,500. Architect, private plans. Owner, G. W. Dickel, 1327 North Broad street, Philadelphia. Brick, 1 story, 20x63 feet. Contract awarded Paul Brosz, 2515 West Huntingdon street, Philadelphia.

Residence, South side Venango street, East of Tulip street, Philadelphia, \$2,300. Architect, private plans. Owner, Joseph Bander, 3602 Tulip street, Philadelphia. Brick, 2 stories, 14x38 feet, slag roof, pine floors. Contract awarded A. J. Forepaugh, 3557 Tulip street, Philadelphia.

Miscellaneous Paving, Philadelphia. Contracts awarded. Owners, Bureau of Highways, Department of Public Works, City Hall. Cheltenham, Old York road to Seventeenth street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$21,698.21. Courtland, Fourth and Fifth, Municipal Paving Co., Second and Wingohocking streets, \$5,238.91. Houghton, Monastery to Gerhard, etc., Union Paving Co., 123 South Twenty-first street, Philadelphia, \$5,238.56. Comly, Hasbrook, Cheltenham, Rising Sun, etc., Peerless Construction Co., Fifty-seventh and Florence avenue, \$10,792.54. Lawndale, Longshore, Rising Sun, St. Vincent, etc., Peerless Construction Co., Fifty-seventh and Florence avenue, Philadelphia, \$4,339.12. Intersection, Forty-fifth, Baltimore

and Springfield avenues, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$5,713.14. Porter, Broad to Sixteenth street, Municipal Paving Co., Second and Wingohocking streets, \$13,432.72. Tacony Bridge to Railroad Crossing, Northeast, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$31,555.85. Rising Sun, Roosevelt Boulevard, Wyoming, C. G. Centrone, Bailey Building, \$14,121.30. Furnish sand blast sand, George F. Pettinos, 1206 Locust street, Philadelphia, \$2,000 on each item. Paving and repaving certain alleys, Mancamp Construction Co., 1822 Moore street, Philadelphia, \$5,889.90.

Miscellaneous Works, Philadelphia. Contracts awarded. Owners, Department of Wharves, Docks and Ferries, Pier No. 4, South Wharves. D—Bulkhead, West side, North of Passyunk avenue, Sec. 106, Harry H. Eyre, 1212 North Delaware avenue, Philadelphia, \$160,000. F—Filling Pier, No. 80, South Wharves, McNichol Paving Co., 1923 Cherry street, Philadelphia, \$8,970.

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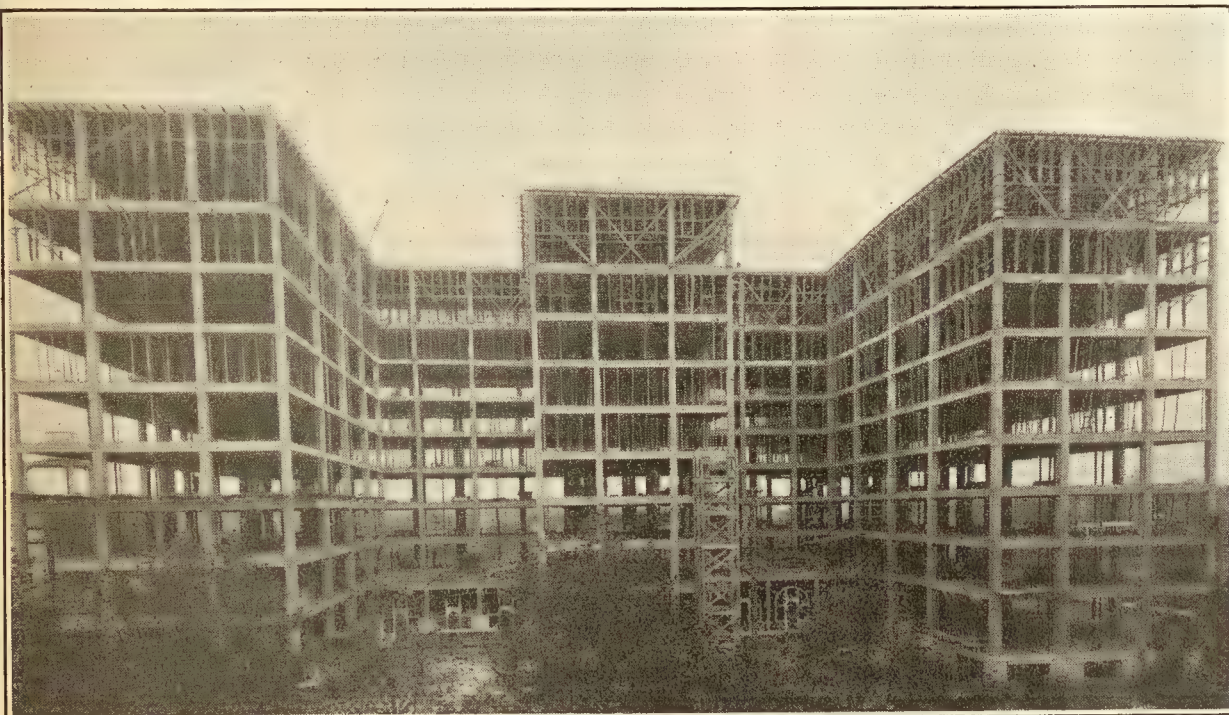
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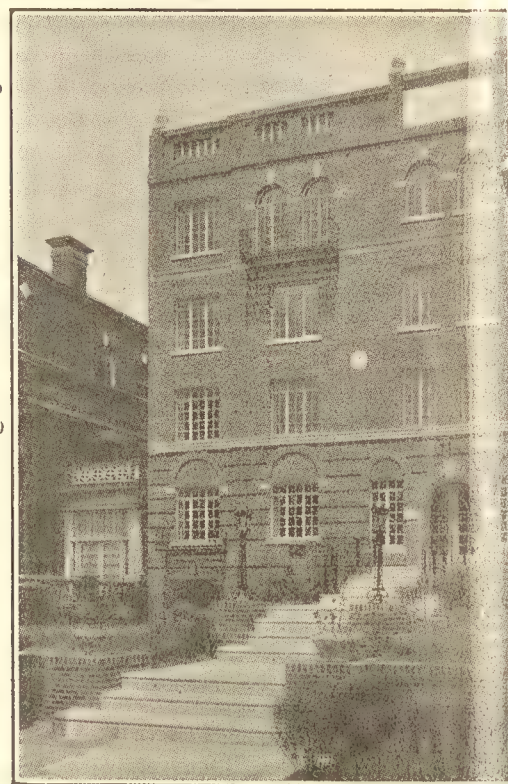
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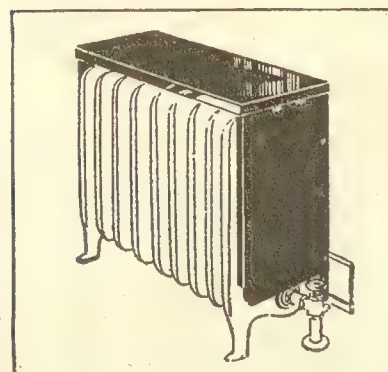
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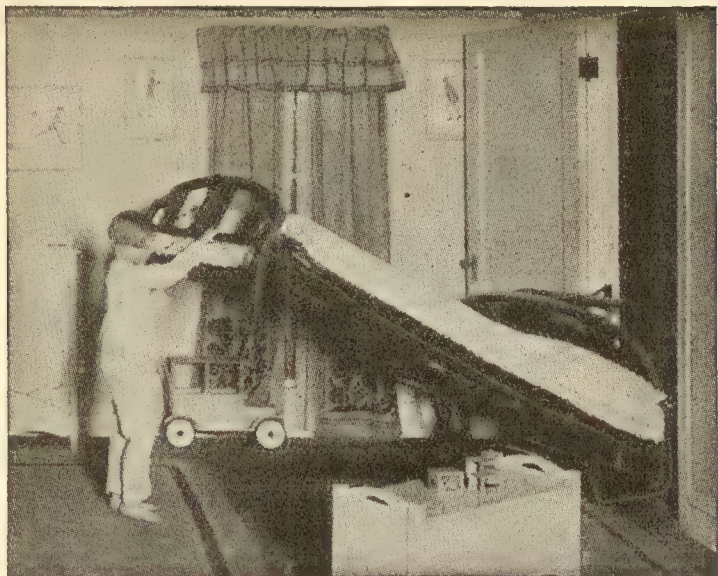
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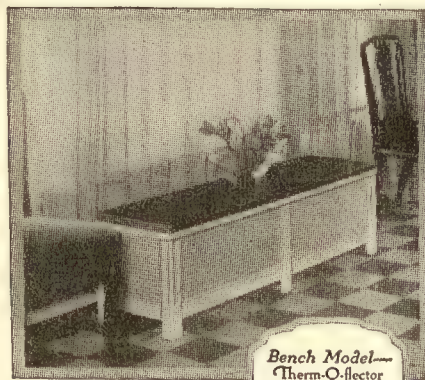
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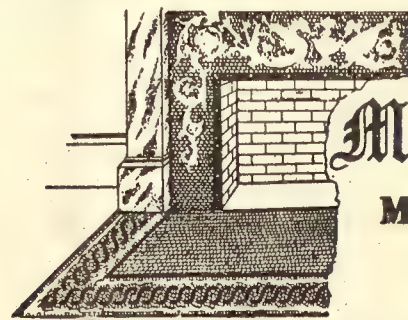
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Manufacturing Building, Northwest corner Cumberland and Thompson streets, Philadelphia. Contract awarded Turner Construction Co., 1713 Sansom street, Philadelphia. Owners, J. T. Lewis & Bro. & Co., Widener Building, Philadelphia. Brick, 2 stories, 54x94 feet.

Pennsylvania Construction News

Factory and Administration Building, Lansdale, Pa. Architects will take new bids from two lowest bidders on revised plans in a few days. Architects, Franklin & Conner, Lansdale, Pa. Owners, Franklin Pottery Co., Lansdale, Pa. Brick, steel, concrete.

Parsonage, Wyomissing, Pa. Preliminary plans in progress. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lutheran Church of the Atonement, Rev. LeRoy Wrichter, Wyomissing, Pa. Stone, 2½ stories.

Factory (add.), Boyertown, Pa. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Union Stove Works, J. Z. Harner, Boyertown, Pa. Brick, steel, 2 stories, slag roof, concrete floors, electric work.

Residence (alts. and add.), Wyomissing, Pa. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owner, H. W. Murray, care of architect. Frame, 2½ stories, 40x30 feet, shingle roof, hardwood floors, tile work, heating extension, electric light.

Church and Sunday School, Narberth, Pa. Architect, Alexander M. Adams, 1012 Walnut street, Philadelphia. Revised plans completed. Owners, Narberth Methodist Episcopal Church, Rev. Samuel McAdams, Narberth, Pa. Stone, 40x70 feet, 30x80 feet, slate roof.

Apartment House, Wynnefield, Pa. Plans in progress. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, steel, 4 stories, 48x100 feet, built-up roof, hardwood and cork floors, kitchen equipment, built-in beds, electric light, metal lath.

Hospital, \$60,000. Reading, Pa. Architect, H. B. Dechant, 632 Washington street, Reading, Pa. Owners, Homeopathic Hospital, F. S. Sertz, Central avenue, Reading, Pa. Plans in progress. Fireproof, 2 stories and basement, 35x90 feet.

Residence, Lancaster, Pa. Plans in progress. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, D. Davidson, care of architect. Stone, 1½ stories, 28x45 feet, shingle roof, hardwood floors, tile, flagstone, hot water heat, oil burner, electric light.

Home, Lancaster, Pa. Plans in progress. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Reformed Synod Church, care of architect. Brick, 2½ stories, 35x80 feet, slate roof, linoleum floors, hot water heat, electric light, tile work, steel sash.

Store and Apartment (alts.), Glenside and Keswick avenues, Glenside, Pa. Plans in

progress. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Moskovitz Brothers, on premises. General alterations.

Residence, Seventh avenue and Spring street, Royersford, Pa. Plans in progress. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, J. Everett York, 332 Walnut street, Royersford, Pa. Brick, cement block, 2 stories, 26x34 feet, slate roof, oak and pine floors, bond, wood sash, tile work, hot water heat, electric light.

Stores and Restaurant (alts. and improvements), Main street, Royersford, Pa. Plans in progress. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, R. F. Kulp, 245 Main street, Royersford, Pa. Brick, 3 stories, 53x63 feet, tin roof, oak floors, bond, steel sash, wire glass, electric light, steam heat.

Service Station, Manoa, Pa. Plans in progress. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, name withheld. Clay tile, 20x24 feet, tile roof, brick, cement.

Residence (alts. and add.), 336 Lenox road, Brookline, Pa. Plans in progress. Architect and owner, John Charles Norton, on premises. Brick, 1 story, 20x24 feet, slate roof, hardwood floors, electric light, tile work, ornamental plastering, solarium.

Stores (2) and Apartments, County Line road, Bryn Mawr, Pa. Plans in progress. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, Andrew Marmer, Bryn Mawr, Pa. Brick, stone, 2 stories, 40x68 feet, slate roof, tile work, metal ceilings.

Store and Apartment (alts. and add.), Lancaster avenue, Ardmore, Pa. Plans about completed. Architect ready for bids in a few days. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, Andrew Calhoun, Ardmore, Pa. Brick, limestone, 2 stories, 26x102 feet, slag roof, hardwood floors, electric light, tile work, kalamein doors, gypsum block.

Garage, Darby, Pa. Plans in progress. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, name withheld. Brick, steel, concrete block, 2 stories, 150x300 feet, concrete ramps, ventilators, overhead and kalamein doors, hot air heat.

Stores (2) and Service Station, Coopertown road, Bryn Mawr, Pa. Plans in progress. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, name withheld. Brick, cast stone, 2 stories, 48x72 feet, slag roof, hardwood floors, tile work, metal sash and skylights, metal bulks.

Sanatorium, Springfield, Pa. Plans in progress. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, name withheld. Brick, steel, concrete, gypsum block, 2 stories, 68x125 feet, hot water heat, electric light, tile work, asbestos roof, cast stone, ventilators, refrigeration, concrete block.

Residence Operation (not decided), Gladwyne, Pa. Architect, private plans. Owners, W. B. Lownes & Son, Gladwyne, Pa. Brick, 2 stories, 16x36 feet, asbestos shingle roof, oak and tile floors, hot water heat, electric

light, tile work. Work contemplated. Owners will take sub-bids about June 1st.

Residence and Garage, Lansdowne, Pa. Architect, C. H. Jester, 141 South Fifty-second street, Philadelphia. Owner, name withheld. Stone, frame, 2½ stories, 40x42 feet, shingle roof, hardwood floors, electric light, tile work. Architect ready for general bids in a week.

Residences (2), Merion avenue, Merion, Pa. Architect, private plans. Owner, W. E. Hexamer, 1600 Arch street, Philadelphia. Stone, frame, 2½ stories, 29x45 feet, wood shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build and is taking sub-bids.

Funeral Home, Hatboro, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Leon Felty, Hatboro, Pa. Hollow tile, stucco, 2 stories, 48x30 feet, morgue 22x34 feet, garage 28x32 feet, hardwood and concrete floors, slate roof, plumbing, hot water heat, electric light, tile work. Plans in progress.

Residences and Garages (5), Merion Golf Manor, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, W. H. Wilson, 1617 Walnut street, Philadelphia. Stone, hollow tile, stucco, various sizes, slate roof, electric light, tile work, hardwood floors. Owner will take bids in a few days.

Residences (4), Bailey road, Lansdowne, Pa. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Manley & Mensch, Lansdowne Theatre Building, Lansdowne, Pa. Brick, stone, frame, 2½ stories, slate or asbestos shingle roof, hardwood floors, 1 or 2-car garages, electric light, tile work. Plans completed. Owners taking sub-bids.

School, Camp Hill, Pa., \$55,000. Architects, D. J. Minnich, Camp Hill, Pa., and S. H. Jamison, Wormleysburg, Pa. Owners, Camp Hill Borough School Board, Jonas Wagner, president, 1418 Walnut street, Camp Hill, Pa. Architect selected.

Cottage, Buck Hill, Pa. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, George Bell, 34 Peredicaris Place, Trenton, N. J. Stone, frame, 2½ stories, 80x50 feet, asbestos shingle roof, pine floors, hot water heat, electric light, tile work. Owner will build.

Residence and Garage, West Chester, Pa. Architect ready for bids in a week. Plans about completed. Architect, W. J. Corcoran, West Chester, Pa. Owner, name withheld. Stone, stucco, 2½ stories, 28x48 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Church, Shoemakerville, Pa. Architect will be ready for bids in two weeks. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, St. Luke's Union Church, care of R. Wolf, Shoemakerville, Pa. Stone, steel, 1 story and basement, 128x40 feet, slate roof, oak floors, vapor heat, electric work, metal lath, steel sash, waterproofing, wrought iron pipe, bronze work, bond.

Sales and Service Building, Southeast Corner Garrett and Kingston roads, Upper Darby, Pa. Architect taking sub-bids and general bids due March 15th. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, Edward A. Bertollett, Upper Darby, Pa. Brick, steel, concrete, 1 story and basement, 65x170 feet, concrete slag roof and floors, steel sash, plate glass.

Residences (3), Oak and Avon roads, Merion, Pa. Owner will build and is taking sub-bids. Architect, A. N. Dobbins, 1718 Cherry street, Philadelphia. Owner, J. E. Sanders, 1615 Dauphin street, Philadelphia. Brick (2), stone (1), 2½ stories, irregular in size, wood shingle roof, hardwood floors, hot water heat, electric light, tile work (3 baths).

Residence and Garage, Merion, Pa. Architect, private plans. Owner taking sub-bids.

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Owner, Herbert A. Barton, Pennsylvania Building, Philadelphia. Concrete block, clapboard, 2½ stories, 25x37 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Residence and Garage, Merion, Pa. Plans in progress. Will take bids in about 2 weeks. Architect, J. Bedford Wooley, 1935 Chestnut street, Philadelphia. Owner, Edward M. Fitch, Jr., Fifteenth and Locust streets, care of Mr. Rankin, agent, Chandler & Rankin, Packard Building, Philadelphia. Stone or brick, 2½ stories.

School (add.), Chadd's Ford, Pa. Architect, E. W. Martin, DuPont Building, Wilmington, Del. Owners, Consolidated School District of Chadd's Ford, S. C. Walker, secretary, Chadd's Ford, Pa. Owners will take bids next week. Brick, 2 stories, 60x75 feet, composition roof, maple floors, safety treads (heating, plumbing, electric separate).

Residence, Maple street, East of Highland avenue, Cynwyd, Pa. John T. Steel, Jr., 515 Swede street, Norristown, Pa., will build. Plans by Charles H. Cramp, 5111 North Broad street, Philadelphia. Owner, Dr. William Steele, 2340 North Thirteenth street, Philadelphia. Stone, 2½ stories, 32x68 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Bungalow, Elmwood, Pa. Owner will build. Architect, C. L. Caspary, Mitten Building, Philadelphia. Owner, I. G. Hill, Elmwood, Pa. Brick, 1½ stories, 25x28 feet, asbestos shingle roof, pine floors, electric work.

High School, Cressona, Pa. All bids rejected. Will take revised bids. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Board of Education, Dr. J. C. Gray, president, Cressona, Pa. Fireproof, 1 story, 114x83 feet, Carey roof, maple floors, hollow tile, safety treads, waterproofing and dampproofing, iron stairs, fire doors.

School, Danville, Pa. Architect taking bids due March 28th. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Catholic Slavok Girls' High School, care of architect. Stone, fireproof, 2 stories and basement, 35x400 feet, slate roof, wood and concrete floors, metal sash, central heat.

State Highway Patrol Building, Harrisburg, Pa. Owners taking bids. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa. Brick, reinforced concrete, steel, 3 stories and basement, 118x46 feet, wing 51x31 feet, bond, excavating, reinforced concrete work, asphalt waterproofing, hollow tile, bluestone, structural steel, metal lath, plastering, ornamental plastering, linoleum floors, metal doors and trim (Dahlstrom or Metal Door & Trim Co. or equal), dumb waiter doors, caulking (Sterlastic), slate, tile, marble, area gratings, rolling steel shutters, dumb waiter (Energy Elevator Co.), refrigerators, refrigerating equipment, kitchen equipment (allow \$2,500), slag roof (plumbing, wrought iron pipe, brass pipe (American Brass Works or equal), electrical work, steam heat, boilers (National Radiator or equal), concealed radiators (Rome Brass Radiator Co.), radiators (National Radiator or equal) reserved).

Church and Sunday School, Harrisburg, Pa. Architect taking bids due March 22nd, at 4 P. M. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Olivet Presbyterian Church, Rev. S. A. Bower, 1926 Bellevue road, Harrisburg, Pa. Stone or brick, structural steel, 2½ stories, 102x88 feet, yellow pine floors, oak floors, waterproofing, cast stone, cinder concrete block, electric light.

Store and Office Building, Lewistown, Pa. Owner taking bids due March 29th. Archi-

fects, Witman & Royer, Central National Bank Building, York, Pa. Owner, A. Reed Hays, Lewistown, Pa. Brick, architectural terra cotta, steel, 2 stories and basement, 144x68 feet, bond, excavation, concrete and cement work, waterproofing (Belings Chapin Co.), stone (Onondago Litholite Co.), granite, iron work, rolling steel doors, metal window guards, steel sash (Truscon), structural lumber, maple and oak floors, composition roof (Philip Carey), Bron grills, metal toilet partitions (Litterer B. W. Mfg. Co.), damp-proofing, plaster bond (Parlocker Vertex), hardware, stone front, mill work, tile and marble, composition floors (Marbeloid), electric work (heating, plumbing, electric separate).

Factory, Frackville, Pa. Architect taking bids due March 21st. Architect, W. D. Shollenberger, Williamsport, Pa. Owners, H. B. Bobb Co., Frackville, Pa. Reinforced concrete, brick, steel, 3 stories and basement, 50x150 feet, slag roof, cement floors (plumbing, heating, electric separate), rolled steel sash, ornamental iron work.

Restaurant and Inn (alts. and add.), Shippensburg, Pa. Architect taking revised bids due March 26th. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, J. B. Morrison, Shippensburg, Pa. Brick, 3 stories, 27x100 feet, built-up roof, tile floors, dumb waiter, electric light, steel sash (heating reserved).

Consolidated High School, Sellersville and Perkasie, Pa. Owners taking bids due April 12th. Bids to be sent to Rev. C. B. Weaver, First National Bank Building, Perkasie, Pa. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owners, Joint School Board of Sellersville and Perkasie, Mahlon Keller, secretary, 8 North Seventh street, Perkasie, Pa. Brick, stone, 2 stories and basement, 150x85 feet, 40x60 feet, composition roof, maple floors, safety treads, bond, wrought iron pipe (heating, plumbing and electric separate).

Residences (2), Lancaster, Pa. Owner taking bids. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owner, F. B. Trissler, 245 North West End avenue, Lancaster, Pa. Stone, 2½ stories, 40x60 feet, shingle roof, hardwood floors, tile work, electric light.

School, Lancaster, Pa. Architect taking bids due April 2nd. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, care of Right Rev. P. H. McDevitt, 111 State street, Harrisburg, Pa.; care of Rev. H. S. Christ, 440 St. Joseph street, Lancaster, Pa. Fireproof, 2 stories and basement, 85x200 feet, composition roof, maple floors, hollow tile, safety treads, roof ventilators, electric light, metal lath, steel sash, skylights.

School, Dallastown, Pa. Owners taking bids due April 7th. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Dallastown School Board, W. J. Taylor, secretary, Dallastown, Pa. Brick, 2 stories, 128x120 feet, composition roof, maple floors, safety treads (heating, plumbing and electric separate).

Store and Two Apartments, County Line

and Loraine avenue, Ardmore, Pa. Architect taking bids. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, Casimiro Ramondo, Ardmore, Pa. Brick, steel, 2 stories, 26x85 feet, slag roof, limestone, hardwood floors, metal ceilings, hot water heat, tile work, metal sash and skylights, kalamein doors, metal bulks, ornamental iron work.

Residence and Garage, Manor Hills, Delaware County, Pa. Architect taking bids due March 22nd. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Isaac E. Gealt, 1211 Chestnut street, Philadelphia. Brick, stucco, 2½ stories and basement, 34x35 feet, 20x20 feet, bond, excavation, Straub cinder block, oak, pine, cement floors, iron work, slate roof, tile work, plaster, concrete and cement work, electric work, wrought iron pipe (Byers or Reading), rubber tile floors (U. S. Rubber Co.), Sanionyx, screens, Arvon wall finish, hot water heat, radiators (American or U. S.).

Residence and Garage, Manor Hills, Delaware County, Pa. Architects taking bids due March 22nd. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Jacob Brassler, care of architect. Stone, brick, 2½ stories and basement, 46x41 feet, 20x20 feet, excavation, stone work, brick work, Straub cinder blocks, cement and concrete floors, oak, pine, cement floors, iron work, carpentry and mill work, metal lath, plastering, slate roof, painting, glazing, electric work, plumbing, Byers or Reading

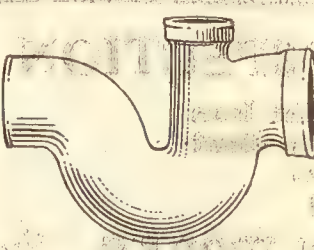
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wrought iron pipe, tile work, Arvon wall finish, hot water heat, radiators (American or U. S.), rubber tile floors (U. S. Rubber Co.), screens, Sanionyx works.

Church, Aronimink, Delaware County, Pa. Architect taking bids due March 25th. Architect, Louis Ward Easby, 1420 Chestnut street, Philadelphia. Owners, Church of the Holy Comforter, Rev. W. W. Schiffer, on premises. Stone, cast stone, steel, 1 story, 91x66 feet, steam heat, electric light, metal lath, bond, ornamental iron work, casement windows, excavation, metal toilet partitions, slate roof, maple and cement floors, plumbing.

School, Ephrata, Pa. Architect, H. Raymond Heckman, Baer Building, Reading, Pa. Owners, Ephrata Township School Board, Benjamin John, president, Ephrata, Pa. Owners taking bids due March 23rd. Brick, 1 story and basement, 57x83 feet, slag roof, pine floors (heating, plumbing and electric work separate).

Manual Arts School, Hatboro, Pa. Architect, W. Walter Whitman, Harrisburg, Pa. Owners, Hatboro School Board, F. W. Hosler, supervising principal, Hatboro, Pa. Brick, 1 story, 40x90 feet, shingle roof. Deposit, \$15; refunded, \$10. Certified check, \$100. Owners taking bids due March 22nd.

Residence, Newtown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, J. J. Burns, Newtown, Pa. Brick, 2½ stories, 40x26 feet, 16½x12 feet, slate roof, hot water heat, stone foundations, electric light, tile work. Architect taking bids due March 22nd.

Bridges (2), Cresmont, Pa., and North Glen-side, Pa. Owners taking bids. Architect, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Railroad, Twelfth and Market streets, Philadelphia. Reinforced concrete.

School, Stoney Creek, Pa. Low bidder: C. S. Painter, Birdsboro, Pa., \$30,540. **School**, Pennside, Pa. Low bidder: C. S. Painter, Birdsboro, Pa., \$7,315. Architect, F. A. Muhl-enberg, Ganster Building, Reading, Pa. Owners, Lower Alsace Township School Board, H. Rothermel, president, Stoney Creek, Pa. Brick, steel, 2 stories and basement, 87x53 feet, 9x2 feet, slag roof, maple floors, safety treads, waterproofing.

Grade School, West Hamburg, Pa. Low bidder: G. Raubenhold, Hamburg, Pa. Architects, Black & Black, 600 North Second street, Harrisburg, Pa. Owners, Tilden Township School Board, G. C. Kirshner, secretary, West Hamburg, Pa. Brick, steel, 1 story, 60x70 feet, slag roof, maple floors.

Bridge, between Columbia and Wrightsville, Pa. Owners, County Commissioners of York, Court House, York, Pa., and County Commissioners of Lancaster, Court House, Lancaster, Pa. 7,373 feet long, 28 spans. Plans completed. Owners about ready for bids.

Miscellaneous Work, Norristown, Pa. Engineer, S. Cameron Corson, City Hall, Norristown, Pa. Owners taking bids. Owners, Borough of Norristown, H. P. Holtner, treasurer, Norristown, Pa. Bids due March 27th, Sewer Committee, cement and castings. Bids due

March 28th, Highway Committee, crushed stone, asphalt road oils. Certified check, \$25.

Bank (add. and alts.), Dunmore, Pa. Plans in progress. Architect, J. A. Barrett, Bowman Building, Scranton, Pa. Owners, First National Bank, L. S. Marsh, 102 Drinker street, Dunmore, Pa. Brick, 2 stories.

Bank (Fire Rebuilding), 3rd and Broad streets, Harrisburg, Pa. Plans in progress. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Central Trust Co., H. Miller, President, on premises. Stone, 1 story.

Residence, \$40,000, Scranton, Pa. Plans in progress. Architect, A. P. Coon, Union Bank Building, Scranton, Pa. Owner, Ely Harris, 13 South Main street, Scranton, Pa. Frame, stucco, 2½ stories.

Bank Building, \$150,000, Reading, Pa. Work contemplated. Architect not selected. Owners, Reading Trust Co., R. M. Hoffman, President, 19 North 5th street, Reading, Pa.

Sunday School Building. Owners, First Lutheran Church, Rev. George Kersher, Mt. Joy, Pa. Location: Main street, Mt. Joy, Pa. Work contemplated. Architect not yet selected.

Store and Apartment Building, 13 East 4th street, Bethlehem, Pa. Owner taking bids. Architect, Daniel Warner, 203 West 4th street, Bethlehem, Pa. Owner, P. Mosca, E. Mechanic street, Bethlehem, Pa. Brick, frame, 2 stories, 22x40 feet, alterations.

Consolidated School, Kulpville, Pa. Low bidder: J. Middleton, Jeffersonville, Pa. Architect, W. Marshall Hughes, 147 North 5th street, Reading, Pa. Owners, Towamencin Township School Board, Leidy S. Kriebel, Secretary, Lansdale, Pa. Brick, hollow tile, 1 story, built-up roof, composition floors, roof ventilators, bond, fire doors, steel sash.

High School, Harrington, Kent Co., Del. Low: bidder: Chas. E. Brohawn & Bros., Cambridge, Md., \$96,535. (Base bid); Electric, O. W. Lynch, 5743 Ogontz avenue, Philadelphia, \$3,900; Plumbing: Pocomoke Foundry & Machinery Co., Pocomoke City, Md., \$10,000; Heating and Ventilating: T. T. Weldin & Son, 916 Orange street, Wilmington, Del., \$19,900. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Dover, Del.

Consolidated School, Sellersville and Perkasie, Pa. Owners taking bids due April 12th. Architect, E. Wm. Martin, DuPont Building, Wilmington, Del. Owners, Joint School Board of Sellersville and Perkasie, W. E. Baum, Secretary, Perkasie, Pa.

School, Edgemont avenue, Parkside, Pa. Architect, C. M. Ryder, Chester, Pa. Owners, Parkside School District, J. H. Phipps, 2606 Edgemont avenue, Chester, Pa. Low bidders: General: T. B. Nash, Chester, Pa., \$15,975; Plumbing: B. L. Marker, Chester, Pa., \$2,395; Heat: F. W. Fowden, Chester, Pa., \$5,595; Electric: George Wood, Chester, Pa., \$568.

Market House, York road, west of Woodland avenue, Abington, Pa. Architects taking bids due March 27th. Architects, Seaburger & Rabenold, 1524 Chestnut street, Philadel-

phia. Owners, York Road Market House, on premises. Brick, 1 story, 150x300 feet.

Fraternity House, State College, Pa. Architect taking bids due March 21st. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, Delta Sigma Chi Fraternity, State College, Pa.

Factory, Frackville, Pa., Architect taking bids due March 21st. Architect, W. D. Shollenberger, Williamsport, Pa. Owners, H. B. Bobb Co., Frackville, Pa.

Pennsylvania Contracts Awarded

Residence (alts. and add.), and Garage, Whitemarsh, Montgomery County, Pa. Contract awarded Wm. J. Ryder, 1725 Sansom street, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South 18th street, Philadelphia. Owner, James F. Talbutt, care of architects. Stone, concrete block, stucco, 2½ stories and basement, 24x21 feet, shingle roof, cement floors, marble work.

Residence and Garage, near West Chester, Pa. Contract awarded Townsend, Schroeder & Wood, Drexel Building. Architect, Edmund Gilchrist, 1618 Latimer street, Philadelphia. Owner, Benj. Rust, Jr., Kirkland, West Chester, Pa. Stone, brick, 3 stories, 69x29 feet, 41x22 feet, shingle and tile roof, oak and linoleum floors, metal lath, rolled steel skylights, ornamental iron work, wire work.

Residence, Bryn Mawr, Pa. Contract awarded W. Harry Roberts, Oakmont, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia, Pa. Owner, Albert E. McVitty, Windon and Roberts road, Bryn Mawr, Pa. Brick, 1 story, 43x12 feet, slate roof, cement floors, steam heat, electric light.

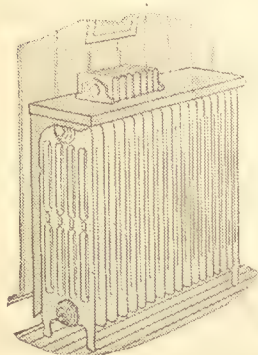
Residence, Bethayres, Pa. Contract awarded J. Sims Wilson Co., 1125 Brown street, Philadelphia. Architect, Leigh French, Jr., 4 East 49th street, New York City. Owner, Joseph Wharton Lippincott, 2nd Street Pike, Bethayres, Pa. Stone, 2 stories and basement, 31x20 feet, slate roof, oak and pine floors, hot water heat, electric light.

Store Building, \$500,000. Pittsburgh, Pa. Architects, Nimmons, Carr & Wright, Chicago, Ill. Owners, Sears-Roebuck Co., Roosevelt Boulevard, Philadelphia. Contract awarded Irwin & Leighton, 1505 Race street, Philadelphia. Brick, reinforced concrete, limestone, steel, 3 stories and basement, slag roof, cement floors, steam heat, electric light, bond, ornamental iron work.

Residence and Garage, Penlyn, Pa. Contract awarded William J. Ryder, 1725 Sansom street, Philadelphia. Architect, Thomas Wharton, 1713 Sansom street, Philadelphia. Owner, Henry B. Cox, Jr., Penlyn, Pa. Stone, 2½ stories and basement, 86x40 feet, wing 61x35 feet, shingle roof, bond, brick work, cement work, tile and marble work, excavation, asphalt and membrane waterproofing, flagstone, bluestone, iron work, oak and pine floors, linoleum, metal lath, plastering, hot water heat, radiators (Rome Brass Radiator Corporation), plumbing, brass pipe (Anaconda), electric work.

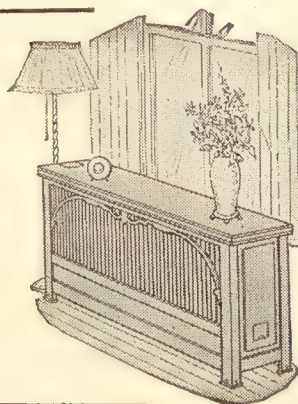
Residence and Garage, Wayne, Pa. Contract awarded J. R. Erbe Co., 2551 North Sixth street, Philadelphia. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, C. P. Cox, care of architect. Stone, 2½ stories.

Grade School (alts. and add.), Paxtang, Pa., \$13,662. Contract awarded J. W. Pomraning, Mechanics' Trust Building, Harrisburg, Pa. Heating to J. H. Bowman, Penbrook, Pa., \$1,970. Electric to J. Luther



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Crum, Penbrook, Pa., \$342. Brick, concrete, steel, second story add., 35x107 feet, composition roof, maple floors, yellow pine floors, roof ventilators, slate boards.

Fire House and Hall, Flourtown, Pa. Contract awarded Potts Brothers, Ambler, Pa. Architect, private plans. Owners, Flourtown Fire Company, George Bodie, chairman, Flourtown, Pa. Brick, steel, 1 story and 2 stories, 122x50 feet, asbestos or paper shingle roof, cement floors, steam heat, electric light, metal lath.

Residence, Avondale, Chester County, Pa. Contract awarded Owen Hoopes, Avondale, Pa. Architect, W. J. Corcoran, West Chester, Pa. Owner, Norman Pusey, Avondale, Pa. Stone, 2½ stories, 27x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Residence and Garage, Brookline, Pa. Contract awarded W. Harry Roberts, Oakmont, Upper Darby, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, C. Carroll Lippincott, 135 Hildale avenue, Lansdowne, Pa. Stone, 2½ stories, 26x68 feet, asbestos shingle, slate roof, oak floors, electric light, tile work.

Hosiery Mill, Reading, Pa. Architect, Christian M. Fries, Frankford and Oxford avenues, Philadelphia. Owners, William F. Muller Co., Inc., Robeson, Reading, Pa. Brick, steel, 1 story, 107x150 feet, slag roof, cement floors, steam heat, electric light, office partitions. Contract awarded William F. Lotz Co., Frankford and Oxford avenues, Philadelphia.

Stores (2), Apartments (6). Contract awarded McCormick Brothers, West Chester, Pa. Architect, W. J. Corcoran, West Chester, Pa. Owner, John S. Garrett, Jr., West Chester, Pa. Brick, concrete block, stucco, 2 stories, 50x72 feet, built-up roof, hardwood floors, structural steel, plaster board, metal lath, kitchen equipment, metal bulks, kalamein doors, tile work, electric light.

Factory. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, Reading Knob Works, Second and Beech streets, Reading, Pa. Contract awarded McCoy & Shenberger, Reading, Pa. Steel, brick, concrete, 1 story, 57x77 feet, wood floors, roof ventilators, electric work, steel sash, fire doors.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Lehigh County, R-443, S-2, A-5795, Upper Macungie and Weisenberg Townships. One course reinforced concrete. Contract awarded Continental Contracting Co., Baltimore, Md., \$88,639.78.

Lackawanna County, A-4717, Archbald Borough. One course reinforced concrete. Contract awarded R. D. Richardson Construction Co., Scranton, Pa., \$68,051.89.

Jefferson County, R-59, S-a, Snyder Township, Brockway Borough. One course reinforced concrete. Contract awarded H. N. McNutt, Clarion, Pa., \$56,710.30.

Luzerne County, R-369, A-4844, 5544, Plymouth Township. One course reinforced concrete, grading and drainage. Contract awarded A. A. White, Lebanon, Pa., \$118,855.66.

Carbon County, R-550, A-5549, East Mauch Chunk Borough, Mauch Chunk and Penn Forest Townships. One course reinforced concrete, grading, drainage. Contract awarded A. A. White Co., Lebanon, Pa., \$94,314.42.

Adams County, A-5510, Conewago and Oxford Townships. Bituminous surface treated macadam surface course. Contract awarded Paul R. Hostetter, Inc., York, Pa., \$75,894.64.

Road Work, Pennsylvania. Contracts awarded. Owners, Penna. Department of Highways, Jan. L. Stuart, Secretary, Harrisburg, Pa.

Crawford Co., R-5418, West Mead Town-

ship. One course reinforced concrete. Awarded to Eastern States Construction Co., Inc., Meadville, Pa., \$56,407.05.

Cumberland Co., A-5749, Upper Frankford Township. Bituminous surface treated macadam surface course. Awarded to Diehl-Hemberger & Wishard, Greencastle, Pa., \$46,542.30.

Tioga Co., R-102, S-6, Shippen Township. One course reinforced concrete. A. W. Hinaman Construction Co., Williamsport, Pa., \$19,509.95.

Mercer Co., R-238, Spur B, C, A-5658, Shennango Township, Wheatland Borough. One course reinforced concrete, grading, drainage. Fort Pitt Construction Co., Pittsburgh, Pa., \$164,868.68.

Cumberland Co., A-5750, Newton Township. Bituminous surface treated macadam surface course. L. M. Hutchinson, Altoona, Pa., \$80,711.38.

Indiana Co., A-4849, East Wheatfield Township. One course reinforced concrete, grading, drainage. E. R. Vipond, Hollidaysburg, Pa., \$70,470.24.

Armstrong Co., R-534, Wayne and Cowanshannock Townships. One course reinforced concrete. Gray Bros. Co., Inc., Youngstown, Ohio, \$113,759.41.

New Jersey Construction News

Parochial School, Cambridge road and Virginia avenue, Westmont, N. J. Architect taking bids due March 25th. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Holy Saviour Roman Catholic Church, Rev. Lewis A. Hayes, Westmont, N. J. Brick, granite, steel, 2 stories and basement, 157x48 feet, excavation, reinforced concrete work, bond, floor hardener, waterproofing (Parklock), dampproofing (Hydroseal), cast stone alternate, caulking (Ev-Air-Tight Co.), cinder block, steel base joist construction, iron work, metal stairs, roof ventilators (Globe), built-up roof, pine floors, Austral windows, weather stripping (Chamberlain), kalamein doors, tin-clad doors, hollow metal partitions (Sanymetal Products Co.), metal lath, plastering, marble and tile work, mastie floors (Duraflex-Rezilite), plumbing, electric work.

Church and Sunday School, Northeast Corner Twenty-sixth and Hayes streets, Camden, N. J. Owners taking bids due March 25th. Architect, Edwin A. Early, 1511 Arch street,

Philadelphia. Owners, Christ Lutheran Church, Twenty-sixth and Hayes, Camden. Stone, cast stone, steel, 1½ stories and basement, 100x40 feet, slate roof, pine and cement floors, plumbing, steam heat, electric light, metal lath, tile work.

Locker and Recreation Building, Gloucester City, N. J. Owners taking bids due March 21st, 8 P. M. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Camden County Park Commission, Camden, N. J. Cinder block, stucco, 2 stories, 100x57 feet, Barrett specification roof, cement floors, metal partitions, lockers, stools, electric light, residence steel sash.

Apartments (20) and Garages, Westmont, N. J. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 20x60 feet, slag roof, hardwood floors, vapor heat, tile work, rolled steel sash. Plans completed. Architect ready for sub-bids.

Residences (12), \$3,000 each. 15 to 37 South Thirty-eighth street, Camden, N. J. Permit issued. Owner, Ervin Fister, Maple Shade, N. J. Brick, block, 2 stories, 18x32 feet, slag roof, hot water heat.

Residences (5), \$2,800 each. 1750-58 South Ninth street, Camden, N. J. Permit issued. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Russell H. Bennett, Marlton, N. J. Brick, 2 stories, 18x30 feet, slag roof, hot air heating.

High School, Glassboro, N. J. Low bidders. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, Dr. M. J. Luffbary, Glassboro, N. J. Reinforced concrete, 3 stories and basement, 163x53 feet, 2 wings, 138x55 feet. General, Pasquale & Schaible, Vineland, N. J. Electric, Walter L. Lyle, Brookline, N. J. Heating, Burns, Lane & Richardson, Trenton, N. J. Plumbing, A. H. Knoetner & Son, Audubon, N. J.

Bank (alts.), State street, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Trenton Trust Co., care of architects. Brick work, bronze sash, terrazzo work, ornamental iron grills. Contract awarded E. D. La Rue, 53 South Hermitage avenue, Trenton, N. J.

Road Work, New Jersey. Route 3, Section 2, Paterson Plank Road Relocation, Bergen and Hudson Counties, awarded to Harper Brothers, Hackensack, N. J., \$551,000.

Route 44, Sec. 3 and 4, Bridgeport and Nortonville Causeways, in Gloucester and Salem Counties, awarded to Perkins Construc-

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tion Co., Vineland, N. J. Owners, State Highway Commission, State House, Trenton, N. J.

Sewage Pumping Station, Camden, N. J. Contract awarded Eugene Verga, Camden, N. J. Engineers, Remington & Vosbury, Camden, N. J. Owners, City of Camden, F. B. Hanna, City Hall, Camden, N. J.

Road Work, New Jersey. Owners taking bids due April 1st, at noon. Owners, State Highway Commission. A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Route S-41, Sec. 1, Kings Highway to Marlton, Burlington Co. Unclassified excavation, reinforced pavement, gravel surface. Route 39, Sec. 2, widening of Route 39, Sec. 2, Bordentown to Chambers Corners, Burlington Co. Unclassified excavation, reinforced concrete pavement, surface type FA-BC-1, improved shoulders. Certified check, 10%. Deposit, \$10.00

New Jersey Contracts Awarded

Plant, Camden, N. J. Contract awarded Barclay White Co., 22 North Thirty-sixth street, Philadelphia. Engineers, R. A. Wickland & Co., Inc., 205 West Wacker Drive, Chicago, Ill. Owners, Rundle Manufacturing Co., care of Mr. A. C. Held, Twenty-eighth and Cleveland streets, Milwaukee, Wis. Bond, excavation, reinforced concrete work, cement floors (Master Builders), floor hardener, fire doors, ornamental iron work, steel sash (Federal or equal), built-up asphalt (Barber or equal), metal lath, plastering, Zerno-lite (American Cement Paint Co.) (plumbing, heating, electric and elevators separate bids). Shipping building, 2 stories, 121x182 feet. Enameling building, 1 story, 18x78 feet. Cleaning building, 1 story, 102x140 feet. Mill and locker building, 3 stories, 68x69 feet. Power house, 1 story, 88x59 feet. Foundry, 323x150 feet, 1 story building.

Residence, Moorestown, N. J. Contract awarded M. C. Pennell, Merchantville, N. J. Architect, Stanley P. Stewart, Land Title Building, Philadelphia. Engineer, W. Macy Stanton, Land Title Building, Philadelphia. Owner, name withheld.

Store and Residence, 1100-02 South Third street, Camden, N. J. Contract awarded Salvador Sylvester, 431 Stevens street, Camden, N. J. Architect, F. V. Gaudelli, Audubon, N. J. Owners, Italian Greek Importing Co., care of architect. Brick, 2 stories, 30x66 feet, 1 story, 10x30 feet, slag roof, hardwood and cement floors, electric light, metal ceilings, waterproofing, concrete work.

Service Station, Camden, N. J. Contract awarded George H. Anderson, 401 Franklin avenue, Collingswood, N. J. Architect, private plans. Owner, Israel Schatz, 213 Federal street, Camden, N. J. Block, 1 story, 19x100 feet, slag roof, cement floors.

Bakery Building (add.), 411½ Walnut street, Camden, N. J. Contract awarded Frank Valeriani, 259 Spruce street, Camden, N. J. Architect, private plans. Owner, John Marina, 413 Walnut street, Camden, N. J. Block, 1 story add., 21x65 feet, slag roof, steam heat, electric work.

Building, 912 Line street, Camden, N. J. Architect, private plans. Owner, James Lamont, 912 Line street, Camden, N. J. Contract awarded Michael De Mosi, 3318 Mitchell street, Camden, N. J. Brick, 1 story, 29x129 feet, slag roof, electric light.

Building, Atlantic City, N. J. Architect, Israel Demchick, 1701 Chestnut street, Philadelphia. Owners, Linton's Lunch, Watts and Wallace streets, Philadelphia. Brick, steel,

limestone, 3 stories, 140x30 feet (kitchen equipment reserved), slag roof, concrete floors, tile and marble work, brass pipe. Contract awarded Hiram Mathias, Atlantic City, N. J.

Hangars (6), Crescent Boulevard, Camden, N. J. Owners, Central Airport, Inc., C. Townsend Ludington, chairman, 1620 Mitten Building, Philadelphia. Steel, brick, 200x120 feet. Contract awarded Airport Development & Construction Co., 1620 Mitten Building, Philadelphia, who will start work immediately on first hangar.

Miscellaneous Construction News

Garage, location withheld. Architect will take bids next week. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, name withheld. Fireproof, 2 stories, 54x120 feet, slate roof, cement floors, electric light, tile, steel sash, skylights, hollow metal doors.

The Gansevoort Inn, East Park, West Court street, Steuben street, Rome, N. Y. Owners taking bids due March 27th at noon. Architects, Hart & Shape, 247 Park avenue, New York City. Owners, Rome Community Hotel Corporation, care of A. W. Hooke, secretary, care of Oneida County Saving Bank, Rome, N. Y. Brick, steel, concrete, 4 stories and basement, 95x160 feet, bond, excavation, reinforced concrete work, integral waterproofing (Master Builders, Permontite, Truscon or equal), cement floors, floor hardener (L. Sonneborn's, Master Builders or equal), caulking, hollow tile, cast stone, tile and marble work, composition floors, asbestos shingle roof (Mowhawk Asbestos Co.), slate roof, metal lath, plastering, ornamental plaster, kalamein doors, frame and trim, ornamental iron work, iron stairs, coal chutes, iron gratings (Irving), metal toilet stalls (Veneer Steel or equal), dumb waiter (Sedgwick Machinery Co.), elevators (Otis or Gurney), hardware (allowance \$7,000), oak floors, metal weather stripping (Anchor Weather Strip Co. or equal), mail chute, screens. Owners taking separate bids on plumbing, heating, ventilation, refrigeration, kitchen equipment, electric refrigerators. Certified check, 5 per cent. of bid.

Church, Washington, D. C. Owners taking bids due March 30th. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lutheran Church of the Atonement, H. P. Cremerer, 943 L street, N. W., Washington, D. C. Steel, brick, stone, 1 story and basement, 60x115 feet, built-up slate roof, composition floors, hollow tile, safety treads, waterproofing and dampproofing, wire work, cast stone, hollow metal doors, steel sash, metal lath.

Charles Carroll School, Westminster, Md. Owners taking bids. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Carroll County School Board, Mr. Unger, Westminster, Md. Brick, steel, 2 stories, 180x150 feet, composition roof, maple floors, bond, rolled steel sash (heating, plumbing and electric separate).

Apartment House. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, name withheld. Location, Tenth and Jefferson street, Wilmington, Del. Architect taking revised bids due March 28th. Brick, cast stone, architectural terra cotta, steel, 10 stories, 40x119 feet, slag roof, oak and pine floors, steam heat, electric work, metal lath, tile, marble, steel sash, ornamental iron, bond.

Apartment House, Wilmington, Del. Architect taking bids due March 28th. Architect,

W. E. Hance, Equitable Building, Wilmington, Del. Owners, Twebe Delaware Company, J. F. Dunning, president, Rulstian avenue, Wilmington, Del. Reinforced concrete, brick, limestone, 8 stories, 72x96 feet, tile and plastic roof, hardwood floors, hollow tile, elevators, roof ventilators, waterproofing and dampproofing, steel stacks, incinerators, bronze, ornamental iron, bond, fire doors, steel sash, tile, marble, metal lath, vapor heat, oil burner, electric light.

Residence, Brookville, Long Island, N. Y. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, James B. Clews, 9 Broadway, New York. Limestone, fireproof, 2½ stories, 174x100 feet, slate roof (hardware reserved), vacuum heat, hardwood and cement floors, tile and marble work, 15 bath rooms, dumb waiters, ornamental iron work, brass pipe, cast stone, bluestone. Architect taking bids due March 21st.

Road Work, Delaware. Owners, State Highway Department, Dover, Del.

Contract 115, Milford towards Cedar Neck School, 1.22 miles. Low bidder, W. W. Truitt, Lincoln City, Del., \$33,199.50.

Contract 116, Newport Gap Turnpike, 2.00 miles. Low bidders, D. E. O'Donnell & Sons, Ridley Park, Pa., metallic joint, \$57,705; non-metallic, \$48,180.

Contract 117, Milton, Ellendale, 6.01 miles. Low bidders, Highway Engineering & Construction Co., Selbyville, Del., metallic, \$138,703.50; non-metallic, \$136,798.50.

Miscellaneous Contracts Awarded

Freight Car Shops and Power House, Russell, Kentucky. Architect, private plans. Owners, Chesapeake & Ohio Railway Company, Richmond, Va. Brick, steel, concrete, corrugated metal, 1 story, 750x239 feet 5 inches, built-up roof, cement, tile roof, linoleum floors, safety treads, roof ventilators, rolled steel sash, electric light, iron stairs, metal partitions, gypsum tile work. Contract awarded Hughes-Foulkrod Co., 1505 Race street, Philadelphia.

Residence (alts. and add.), 2003 Parkway, Wilmington, Del. Contract awarded C. J. Dougherty, 600 Tatnall street, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, G. R. Kaiser, on premises. Brick or tile and stucco, 1 story, built-up roof, electric light, tile work, flagstone.

Residence (alts. and add.), 2310 West Seventeenth street, Wilmington, Del. Contract awarded H. S. Lynch Co., 715 Tatnall street, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, E. G. Ackart, on premises. Brick, second story add., 20x14 feet, built-up roof, hardwood floors, heating extension, electric light, tile work.

ESTIMATOR WANTED for builder's office. Opportunity for man with initiative, experience, local acquaintance. Write for interview, giving full details. Box A, Builders' Guide, Perry Building, Philadelphia.

ESTIMATOR-SALESMAN wants position with reliable sub-contractor or material company; wide experience and acquaintance with Philadelphia builders and architects. Box B, Builders' Guide, Perry Building, Philadelphia.

AIRPORT DEVELOPMENT STIMULATES INDUSTRY

Economic Significance of Lehigh Airports Competition Shown in Variety of Problems Involved

Airport development—the latest offspring of aeronautical activity—has suddenly taken its place as the most important problem in the growth of commercial air transportation. It has already become apparent that air traffic can now grow no faster than the extension of adequate ground facilities in the form of airports and emergency landing fields. At the same time, airport development has begun to exert a powerful influence in many fields of business activity with which it is not normally associated in the public mind. It has given particular stimulus to the building field.

Colonel Harry H. Blee of the Airports and Airways Section of the Department of Commerce, made the statement early in February that about 1,000 airports were in various stages of actual development throughout the United States and that approximately 1,000 other airports were under consideration by communities, air transport companies, and other interested organizations. He commented upon the fact that these figures were merely estimates because they were changing so rapidly they could not be checked from day to day. Four months ago not over 400 airports were actually under way. It is also estimated that about three hundred millions of dollars will be spent during the next twelve months for the construction and development of airports, but this figure likewise is a mere guess. For 25 years people have been thinking about flying and flying machines. In that period they have become air-minded to a considerable extent. Within the last five years—or it may be said within the last year—public attention has been drawn to the commercial aspects of flying and to the need for airport facilities. People are now becoming “airport-minded.”

It is amazing to realize the ramifications of influence which aeronautics is exerting upon the nation's business and the nation's prosperity. The hobby of the two bicycle makers of Dayton and Kitty Hawk has in 25 years begun to transform the business methods and transportation systems of the world. Unfortunately, the progress of aeronautics has been so rapid that the public has not been able to keep pace with its values and developments. Of the few hundred landing fields in this country, there is not one which provides the facilities necessary to encourage passenger transportation. There is not one which can grow to meet the demands of increase in air traffic without wasting some part of the money already invested. It has been impossible to

be sufficiently far-sighted in airport planning, because there has been no successful precedent to guide us in our work. In Europe, the well established airports are revamping their layouts; Croydon has scrapped a six hundred thousand dollar investment and is spending over a million dollars to correct deficiencies in the earlier arrangement and equipment of the port and to provide facilities which it is hoped will meet the requirements for several years into the future. Airport development is in its infancy throughout the world, and while Europe has so far made the greatest advances in this field, America, unhampered by precedent, can be expected to outstrip Europe within the next few years in airport design and construction and in the growth of its commercial traffic.

Three hundred million dollars will probably be spent in the next twelve months for airport construction without the guidance of any sound experience. Much of this money may be wasted because communities cannot foresee how best to plan their ports and the facilities which air transportation requires. Appreciating the potential loss which this situation creates, the Lehigh Portland Cement Company has made a timely gesture of tremendous significance to the nation as a whole, and to the aviation industry in particular, by establishing a national competition among architects and engineers for the design of airports.

It may seem absurd that a simple competition among people who are not necessarily flyers and who heretofore have not been directly concerned with the creation of flying facilities should be of great significance, but upon second thought, it will become apparent that through crystallizing the attention of thousands of designers on airport problems, many of the diverse ideas which are now guiding airport activities will be tested out and the good wheat separated from the chaff. Furthermore, it is quite possible that such a competition will bring out new solutions of the airport problem.

The Lehigh Airports Competition is a serious endeavor to contribute something of practical value as a guide for the expenditure of the billion or more dollars which inevitably will be spent within a few years for ground facilities in conjunction with commercial aeronautics. The competition program was formulated by a Program Committee of nationally known experts, headed by Harvey Wiley Corbett, one of the country's foremost architects. The Program Committee consisted of four sections of Architecture, Engineering, City Planning, and Aeronautics. With Mr. Corbett on the Architectural Section are Raymond Hood, co-designer of the Chicago Tribune Tower, the American Radiator Buildings in New

York and London; and other world famous structures; Professor William A. Boring, Dean of the School of Architecture, Columbia University; Francis Keally, professional advisor for the competition and an architect who spent last summer flying through Europe making a special study of airports; and Parker Morse Hooper, Editor of *The Architectural Forum*. Professor Boring, incidentally, is planning to spend the summer holidays in Europe and will make a special study of airport development in order to bring the latest European thought to bear upon the judgment of the competition entries at the close of the contest.

The Engineering Section, headed by Morris Knowles, noted civil engineer and city planning expert and including Francis Lee Stuart, former Vice-President of the A. S. C. E., Gavin Hadden, C. E., Harold M. Lewis of the Regional Plan of New York and its environs, and Colonel Willard Chevalier, Managing Director of *Engineering News-Record*, are guiding the policies of the competition with respect to the engineering problems which are such an important phase of airport development.

Mr. George B. Ford, City Planner, is Chairman of the Civics and City Planning Section, in which work he has been assisted by Mr. E. P. Goodrich, who is now in China making a study of engineering problems, including the development of airports in conjunction with the expansion of Chinese transportation systems. Mr. Fred C. McLaughlin, Mayor of White Plains, New York, President of the New York State Conference of Mayors and of the Westchester County Planning Federation, represents the interests of municipal authorities in the competition, and Harold Bittenheim, Editor of *American City*, represents city engineers, Chambers of Commerce, and similar bodies concerned with this problem.

The Aeronautics Section of the Program Committee is headed by Dr. George W. Lewis, Chairman, Director of Research of the National Advisory Counsel for Aeronautics, and includes such experts as Colonel Harry H. Blee of the Department of Commerce; Porter Adams, Executive Secretary and past President of the National Aeronautic Association; Major John Berry, Manager of the Cleveland Municipal Airport; L. K. Bell, Secretary of the Aeronautical Chamber of Commerce; Colonel Paul Henderson, Vice-President of the Transcontinental Air Transport and former Asst. Postmaster-General in charge of Air Mail Service; Charles S. (Casey) Jones, President of the Curtiss Flying Service; Ernest Jones, Aeronautics Expert of the Department of Commerce; and Harry Schwarzschild, Editor of *Airports*. These men and their other associates on the Program

Committee were faced with a task of no small importance in determining what limitations and what requirements should be incorporated in the competition program to create a group of designs which should be of practical as well as inspirational value to municipalities and air transport companies interested in the development of modern airports. The very difficulties they encountered give evidence of the varied nature of the airport problem and of the many types of business upon which airport development impinges.

Naturally, the modern airport must resemble to a considerable extent a well-equipped railroad terminal. It must provide a passenger station with ticket offices, baggage rooms, waiting rooms, public restaurant, toilets, and other commonplace facilities. Without doubt, it should provide an immigration and customs office, a postoffice, and adequate facilities for handling express and mail. There must be administration offices, not only for the various aerial transport lines which utilize the field, but for the control of flying operations at and adjacent to the port. There must be quarters for the field and flying personnel, and probably a hotel for transients as well as these permanent guests. There must be hangars for the care of planes, machine shop, fire station, gasoline and oil filling stations, an extensive and elaborate lighting system, and many other service facilities required for the care and operation of planes.

The more important features, however, which the competition has developed is the necessity for developing other uses and other activities in conjunction with the airport. At Croyden Field in England, at the Tempelhof Field in Berlin, and at the Littorio Airport at Rome, and other European airports, thousands of visitors come to the field daily or during weekends to watch planes arrive and depart. These people come in a holiday mood and they patronize the beer gardens, restaurants, and amusement concessions which rapidly sprang up to fill their needs. The modern airport must expect to derive part of its income from concessions of this type; a feature which is by no means impracticable, because there is always the need for marginal strips around the borders of flying fields which will be free from tall buildings in order to permit planes to glide gently toward the landing area. These marginal strips can be logically utilized as park areas, outdoor restaurants, recreational and athletic grounds, and as parking space for automobiles. They may be very beautifully developed as part of a city's park and recreation system, giving to the airport an attractive appearance from loft as well as from the ground.

What does all this mean to the practical business man? Obviously, the

building industry itself is being stimulated by a new market for its materials. An airport construction program involves practically every type of material used in modern buildings. It involves extensive grading and drainage work, the laying of huge areas of pavement, the erection of miles of protective fences, the laying of more miles of underground electric conduit for lighting purposes, the planting and decoration of marginal strips, the construction of new roads for access to the heart of the community it serves, and often the development of new local transportation systems, including subways, bus lines, and railroad connections. If the airport is adjacent to water, other facilities are necessary for correlated shipping interests. This three hundred million dollar market (assuming the estimate to be well founded) for building materials is but one result of airport activity.

A part of the total expenditure goes into other types of business, much of it locally to the merchants of the municipality. After the airport is completed, it attracts other types of construction, including the development of airplane factories and associated manufacturing interests. It has already been discovered that the modern airport stimulates real estate values for residential as well as business purposes. It can be truly said that commercial aviation has brought new business opportunities literally on its wings to almost every field of commercial endeavor.

The Lehigh Airports Competition, which will crystallize the thoughts of the nation's planning experts, will close in November, 1929. Prizes amounting to \$10,000 have been posted by the Lehigh Portland Cement Company to be distributed for the winning designs. Subsequently, it is intended that this material shall be published for the benefit of municipal and aviation interests. It is quite probable that the winners will also receive commissions as a direct result of this competition, for the development of actual airports.

AUTOMATIC HEAT REGULATOR WILL HALT OVERHEATING

Experiments by noted public health authorities have confirmed the conclusion that we catch cold chiefly because we live in a dry, overheated atmosphere during the winter months. These authorities say that overheating weakens the tissues of the nose and throat, so they cannot stand the shock of sudden temperature change when we leave a heated room and go outdoors.

Certain it is that in many homes the start of the heating season means one cold after another. Summer bloom leaves the cheeks of the children, and the entire family seems to slow up. It is not too

much cold outdoors, but too much heat in the home that causes the trouble.

Oveheating may be prevented if the home heating plant is equipped with an automatic heat regulator. This device maintains a steady, even temperature without the need for any one touching dampers or drafts.

A clock arrangement rouses the fire early in the morning so that rooms are warmed when it is time to dress. The heat regulator almost always brings fuel savings that within a short time pay for it. Like many other permanent improvements for the home, this equipment may be purchased on a budget plan.

—East Bay Builder.

Arthur B. Murphy, formerly Secretary-Manager of The Common Brick Manufacturers' Association, Philadelphia District, and more recently associated with The Independent Brick Company of Trenton, N. J., has assumed his new duties as Secretary and Treasurer of The Covell Corporation, to which offices he was elected on February 11th.

Mr. Murphy is now located at 1600 Walnut Street, Philadelphia, the main office of The Covell Corporation, which owns and controls basic patents on building units and systems known as the "Weldcrete" method of masonry construction.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soil with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

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The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

Reference Directory for Architects, Builders and Owners

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Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

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Strandwitz & Scott, Inc.,
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AREA GRATINGS
Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
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1505 N. Mascher St., Phila.
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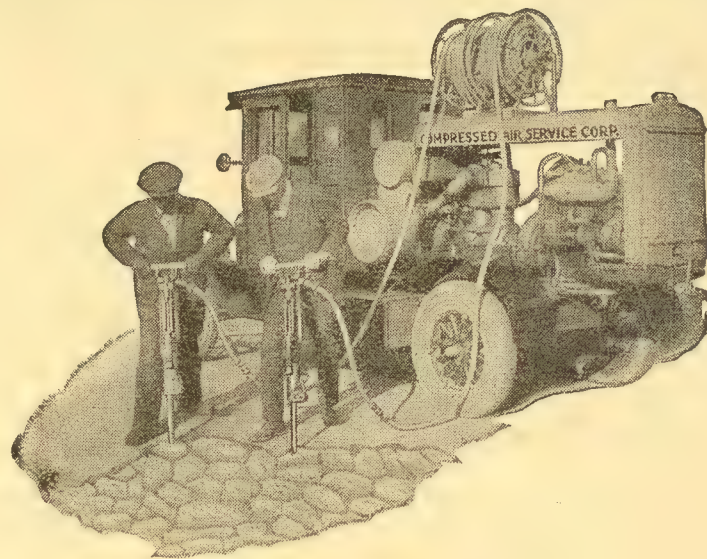
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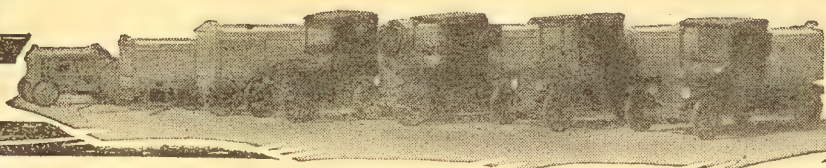
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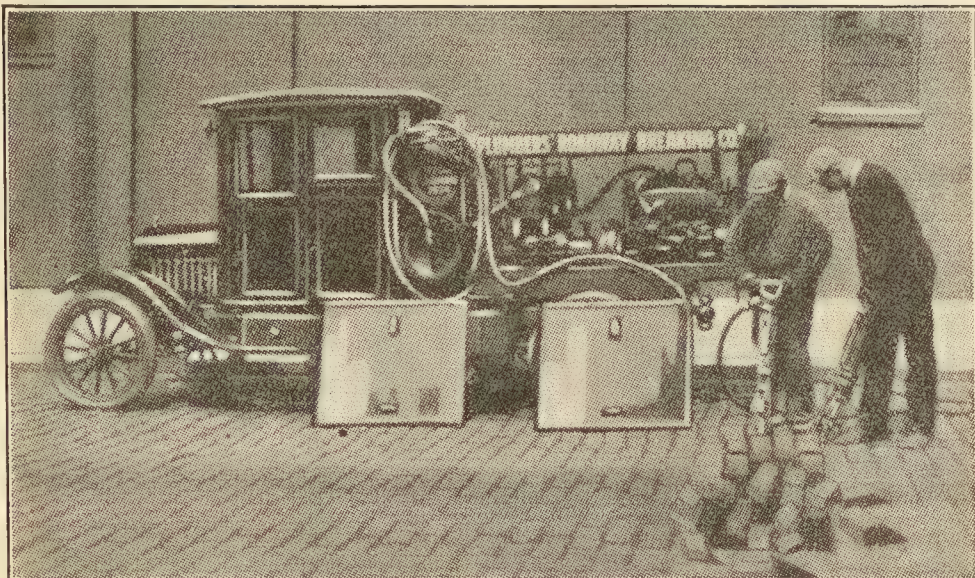
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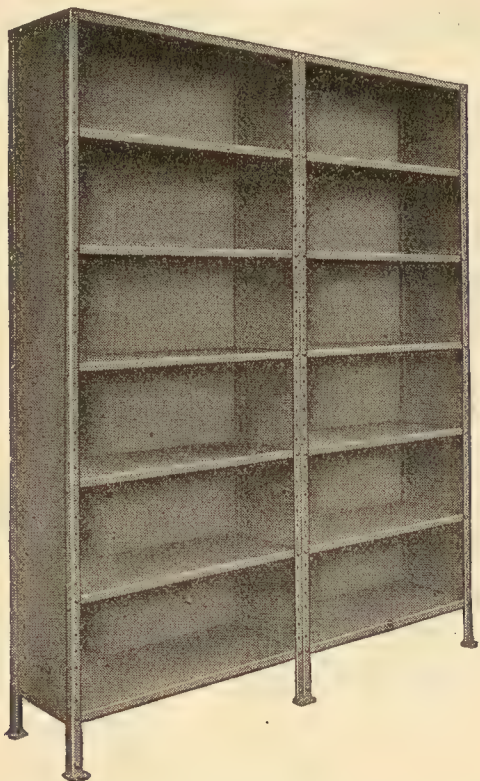
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VOLUME XLIV
Number 13

PHILADELPHIA
March 27, 1929

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BY

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Apartment House, Walnut lane and Morton street, Philadelphia. Plans in progress. Architects, Durham Brothers, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Brick, steel, 4 stories, 165x135 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, steel casements.

Residence and Garage, South side of Allen's lane, West of Greene street, Philadelphia. Revised plans in progress. Architect ready for bids in a few days. Architect, Edwyn G. Rorke, Glenside, Pa. Owner, Walter S. Stuempfig, 5052 McKean street, Philadelphia. Stone, 2½ stories and basement, 60x38 feet.

Apartment Building (alts. and add.), Penn street near Wayne avenue, Philadelphia. Sketches completed. Architect, Clarence L. Caspary, 1701 Walnut street, Philadelphia. Owners, Penn-Wayne Realty Co., care of architect. Brick, 3 stories, 15x15 feet, slag roof, hot water heat.

Residence Operation, Tulpehocken, Seventy-fifth avenue and Briar road, Philadelphia. Work contemplated, will mature in one year. Owner, Sylvan S. Levy, 1636 Walnut street, Philadelphia. Lot, 500x240 feet.

Office Building, 115-17-19-21 South Seventeenth street, Philadelphia. Plans in progress. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owner, Joseph J. Greenberg, Fidelity-Philadelphia Building, Philadelphia. Brick, steel, concrete work, 24 stories, 65x96 feet, slag roof, cement floors, elevators, steam heat, electric light, tile and marble work.

Commercial Building, Southwest Corner Broad and Passyunk avenue, Philadelphia. Work contemplated. Owner, George Jacobs, 64 East Main street, Waynesboro, Pa. Size of lot, 178x224 feet.

Restaurant, 1429 Arch street, Philadelphia. Work contemplated. Details undecided. Architect, Ralph Bencker, Thirteenth and Chestnut streets, Philadelphia. Owners, Horn & Hardart Baking Co., 204 South Warnock street, Philadelphia. Brick, steel, terra cotta, 2 stories, 20x100 feet.

Apartment Building, 3610-14 Chestnut street, Philadelphia. Architect taking sub-bids. Architect, Max A. Bernhardt, 127 North Eighteenth street, Philadelphia. Owner, Samuel Furman, care of architect. Brick, steel, terra cotta, 4 stories, 55x130 feet, slag roof, hardwood floors, elevators, cast stone, vapor heat, electric work.

Residences (8), \$60,000 each. Southwest Corner Germantown avenue and Hampton road, Philadelphia. Owner will build and sub-let. Architect, private plans. Owner, G. Hilliard English, 3113 West Coulter street, Philadelphia. Brick, stone, 2½ stories, various sizes, slate and shingle roof, hardwood floors, hot water heat, electric light, tile and marble.

Residences and Garages (27), Godfrey avenue and Mascher street, Philadelphia. Owner taking sub-bids. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, Lyle H. Rickards, 6003 North Fifth street, Philadelphia. Brick, 2 stories, 16x28 feet, slag roof, hardwood and cement floors, hot water heat, electric light, tile work.

Office Building, Southeast Corner Twen-

tieth and Race streets, Philadelphia. Owners will build and sub-let. Plans in progress. Architects and owners, Hoffman-Henon, Finance Building, Philadelphia. Brick, steel, 4 stories and basement, 72x50 feet, slag roof, oak and pine floors, steam heat, electric light, tile work.

Apartment House, Seventy-second and Ogontz avenue, Philadelphia. Plans in progress. Owner will build and sub-let. Architect, private plans. Owners, George A. Nahm, Inc., 2736 West Girard avenue, Philadelphia. Brick and cast stone, 4 stories, 110x165 feet, slag roof, hardwood floors, elevators, hot water heat, electric light, tile and marble.

Stores (5), **Apartments** (2), Seventy-second and Ogontz avenue, Philadelphia. Plans in progress. Owners will build and sub-let. Architect, private plans. Owners, George A. Nahm, Inc., 2736 West Girard avenue, Philadelphia. Brick and cast stone, 3 stories, 100x150 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work.

Building (alts.), 423 Spruce street, Philadelphia. Owner taking sub-bids. Architect, private plans. Owner, name withheld. Demolition, cement and concrete work, stone work, brick work, plastering, plumbing, steam or hot water heat, painting, mill work, lumber, glazing, slag roof, sheet metal work, roof ventilators, electric work. Plans and specifications may be seen at 423 Spruce street, between hours of 10 A. M. to 12 and 1 P. M. to 3 P. M.

Club House, Northwest Corner Sixteenth and Locust streets, Philadelphia. Architect

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taking bids due April 2nd, 4 P. M. Architect, Grant M. Simon, 1500 Walnut street, Philadelphia. Owners, University Club, John C. Hinekey, chairman, 1510 Walnut street. Reinforced concrete, brick, steel, 17 stories, 2 mezzanines and basement, 100x42 feet (plumbing, heating, refrigeration, ventilation, kitchen equipment reserved), caisson foundations, excavation, reinforced concrete, waterproofing (Anti-Hydro), rolled steel sash (Lupton's), cement floors, floor hardener (Master Builders), membrane waterproofing, dampproofing (Hydroseal), waterproofing (Western Waterproofing Co.), blue stone, hollow tile, gypsum blocks (U. S. Gypsum Co.), granite, limestone, iron work, area gratings (Blaw-Knox or equal), iron stairs, carpentry, mill work, cabinet work, metal lath, plastering, marble work, tile work, terrazzo, acoustical treatment, cork insulation, bronze or ornamental iron work, caulking (Ev-Air-Tight Co.), hardware (allowance, \$10,000), hollow metal doors, tin-clad doors, slag roofing (Barrett's), tile roof, weather stripping, elevators, dumb waiters, electric work.

Church and Sunday School (alts. and add.), Northeast Corner Broad and Venango streets, Philadelphia. Architect taking bids due April 2nd. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Trinity Reformed Church, Rev. P. E. Dietz, 3911 North 17th street, Phila. Stone, steel, limestone, second story add., 53x77 feet, 1½ stories add., 22x120 feet, slate, gypsum and slag roof, gypsum, cement, maple floors, architectural terra cotta, metal lath, tile, marble and terrazzo work, bond, ornamental iron work.

Delivery Station, Forty-fourth and Haverford avenue, Philadelphia. Owners taking bids due March 28th. Architect, C. Leslie Weir, 41 East Forty-second street, New York City. Owners, American Ice Co., H. C. Welch, 131 North Broad street, Philadelphia. Brick, steel, 1 story, 46x60 feet, slag roof, cement floors, bond, ornamental iron work.

Residence and Garage, 6400 North Eighth street, Oak Lane Park, Philadelphia. Architect taking bids due March 28th at noon. Architect, Albert N. Dobbins, 1718 Cherry street, Philadelphia. Owner, W. H. Loesche, 5805 North Sixth street, Philadelphia. Brick, under block, stucco, 2½ stories, 39x52 feet (oil burners, light fixtures, gas range reserved), hot water heat, asbestos shingle roof, hardwood floors, tile work.

School, Twenty-second and Clearfield streets, Philadelphia. Architects taking bids due April 1st. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owners, St. Mary's Roman Catholic Church, Rev. F. Bernardo, on premises. Stone, brick, steel, 4 stories and

basement, 140x68 feet (plumbing, heating reserved), bond, demolition, excavation, reinforced concrete, cement floors, granite, Mt. Airy (alternate), cast stone (Formegli or Economy), hollow tile, iron work, iron stairs, area gratings (Kerlow or equal), gypsum floors and roof slab, oak, pine and maple floors, linoleum (Armstrong or equal), metal lath, plastering, wall finish (Arvon), slate work; tile work, waterproofing (Hydroseal or Truseon), Penetrite waterproofing, floor hardener (Hydroseal), slag roof (Barrett Specification), slate roof (John Emaek, gray slate), painting, glazing, metal casement sash (Thor or equal), metal partitions (Sani-metal), kalamein doors, metal lockers and shelving, hardware (allowance, \$2,650).

Mill (add.), Northwest Corner Gillingham and Torresdale avenue, Philadelphia. Owners taking bids due April 2nd. Architect, C. H. Wister, 1733 North Marvine street, Philadelphia. Owners, Whitehall Knitting Mills, Torresdale and Gillingham st., Phila. Brick, steel, granite, 3 stories and basement, 122x50 feet, slag roof, concrete and pine floors, elevators, sprinklers, cast stone, steel partitions, incinerators, steam heat, electric light, oil burners, rolled steel sash, fire and kalamein doors, bond, iron stairs, area gratings.

Factory, Thirty-second and Allegheny avenue, Philadelphia. Architect taking bids due April 1st, 11 A. M. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Reyburn Manufacturing Co., on premises. Brick, concrete, 5 stories, 245x100 feet.

Building (alts. into Garage), Northwest Corner Twenty-fifth and Ridge avenue, Philadelphia. Owner taking bids due as soon as possible. Architect, Henry L. Reinhold, 1632 Walnut street, Philadelphia. Owner, George A. Buckley, Liberty Building, Philadelphia. Bond, excavation, stone masonry, carpentry, steel work, carpentry, mill work, plastering, painting, hardware, electric, plumbing, steam heat.

Locker House, 6901 Ridge avenue, Philadelphia. Architect taking bids. Architect, Frank E. Hahn, 629 Chestnut street, Philadelphia. Owners, Green Valley Country Club, M. L. Wurzell, 1313 Walnut street. Stone, brick, 2 stories, 35x80 feet, slate roof, cement floors.

Residence (alts.), 35 West Phil-Ellena street, Philadelphia. Architect taking bids due March 29th. Architect, J. Linernd Conarroe, 1518 Walnut street, Philadelphia. Owner, Dr. Edwin H. Delk, on premises. Cement work, demolition, electric work, excavation, glazing, hardware, metal lath, plastering, carpentry and mill work, plumbing, tile and marble work, shingle roof, alterations to heating.

Garage, Armat and Kenyon streets, Philadelphia. Owner taking bids due March 29th.

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Architect, private plans. Owners, Abbott's Dairies, N. L. Swyler, Thirty-first and Chestnut streets, Philadelphia. Brick, reinforced concrete, 2 stories, 74x111 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash.

Residences (65), \$229,500. Loring street, Vista and Erdrick streets, Philadelphia. Permit issued. Owner, Carl A. Mayer, 235 West Olney avenue, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 30 feet, hot water heat, electric light, slag roof, hardwood and pine floors.

Residences (38), \$171,500. West side Aldine street, South of Rowland street, Philadelphia. Permit issued. Owner, Frank Schilling, 175 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 16x31 feet, 12x14 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (17), \$79,500. South side Cheltenham avenue, West of Horrocks street, Philadelphia. Permit issued. Owners, George R. Osborne & Son, 5014 Saul street, Philadelphia. Brick, 2 stories, 16x30 feet, 12x14 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (4), \$68,000. South side White-marsh street, West of Stenton avenue, Philadelphia. Permit issued. Owner, George W. Carson, Stenton avenue and Haines street, Philadelphia. Stone, 3 stories, 45x18 feet, 20x21 feet, hardwood and pine floors, hot water heat, electric light.

Residences (4), \$16,800. West side Tabor road, North of Magee street, Philadelphia. Permit issued. Owner, Theodore Kirmis, 6502 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x48 feet, hot water heat, electric light, hardwood and pine floors.

Motor Building and Pump House, \$35,000. North side Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Owners, Gulf Refining Co., Box 1567, Philadelphia. Architect, private plans. Brick, 1 story, 127x27 feet and 140x34 feet.

Residences (102), Seventy-third avenue, West of Tenth street, Philadelphia, \$310,000. Permit issued. Architect, private plans. Owners, Erny & Nolan, 3701 North Broad street, Philadelphia. Brick, 2 stories, 16x37 feet, 13x9 feet, hot water heat, electric light, slag roof, hardwood and pine floors.

Residence, \$12,000. Rounford road, East of Ardleigh street, Philadelphia. Permit issued. Owner, G. H. English, 3113 Coulter street, Philadelphia. Brick, 3 stories, 67 feet x irregular, hot water heat, electric light, tile work, hardwood and pine floors.

Residences (8), \$32,000. West side Loretta street, North of Cottman street, Philadelphia. Permit issued. Architect, private plans. Owners, Louis Leitenberger's Sons, 1905

Cottman street, Philadelphia. Brick, 2 stories, 14x21 feet, 17x23 feet, hot water heat, electric light, slag roof, hardwood and pine floors.

Residences (9), \$27,000. West side Thompson street, South of Pickwick street, Philadelphia. Permit issued. Architect, private plans. Owner, J. J. McHugh, 1617 Race street, Philadelphia. Brick, 2 stories, 15x30 feet, 10x10 feet, hot water heat, electric work.

Gas Station, \$5,000. Northwest Corner Twenty-first and South streets, Philadelphia. Permit issued. Owners, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 1 story, 13x31 feet.

Residences (2), \$32,000. North side Glen Echo road, East of Mt. Pleasant avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Herbert Rollin, 515 Pelham road, Philadelphia. Stone, 3 stories, 26x40 feet, 30x21 feet, hot water heat, electric light, hardwood and pine floors, tile work.

Shop, \$3,000. Southwest Corner Wyalusing avenue and Merion avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Joseph V. Kelly, Fortieth and Lancaster avenue, Philadelphia. Brick, 1 story, 60x50 feet.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Bureau of Highways, Department of Public Works, City Hall. Magdalena, Walnut lane, etc., Marino Mane, 3936 Reese street, Philadelphia, \$544. Merrick, Pensdale to Shurs Lane, M. Leewright, 424 Seville street, Philadelphia, \$520.78. Hauling asphalt and cinder mixtures, etc., Elwood Garlisk, Sr., 2948 East Venango street, \$57.300. Furnish and deliver fast-hardening Portland cement, MICool Construction Co., 5033 Duffield street, Philadelphia, \$11,900. Furnishing and delivering pebbles and sand, Charles Warner, 1518 Walnut street, \$9,446. Removal pier fenders, Bridge No. 9, Harry H. Eyre, 1212 North Delaware avenue, \$10,990. Steel smoke sheathing, Fifth Street Bridge, North Penn Branch of Reading, Keystone Boiler Works, 4640 Umbria street, Philadelphia, \$4,528.

Schedule A, Branch Sewers, Philadelphia. Owners, Department of Public Works, Bureau of Engineering and Surveys, Philadelphia. Low bidders: Tioga street, from Salmon to Belgrade, Sabatini Valline, 1720 South Chadwick street, Philadelphia, \$18,425.61. Levick street, Torresdale avenue to Philadelphia and Reading Railroad, A. Di Sandro & Son, 6400 North Fifth street, Philadelphia, \$31,079.50. Sanger street, Tackawanna street to Walker street, Bittirio & Ventresco, 6016 Ross street, Philadelphia, \$7,318.75.

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Schedule B—Main Sewers. Bouvier street, Elston street to Cheltenham avenue, D. De lise, 4842 North Leithgow street, Philadelphia, \$14,347. Hunting Park avenue, Schuylkill River to East of Ridge avenue, Thomas Burke & Co., Philadelphia, \$63,730.50. Sixty-seventh street, Schuylkill River to Eastwick avenue, Garson & Garson, 1143 North Fifty-eighth street, Philadelphia, \$284,896. Wissahickon Low Level Col. Sewer through Fairmount Park, from North of Township Line road to Bell's Mill road, A. Di Sandro & Son, 6400 North Fifth street, Philadelphia, \$137,272.

Schedule C—Sewage Disposal Project. Sandy Run Intercepting Sewer, East of Ryan avenue to South of Brous street, Garson & Garson, Philadelphia, \$44,646. Bridge Street Intercepting Sewer and appurtenant work, George F. Dobbin, 1020 South Forty-seventh street, Philadelphia, \$9,324. Comly Street Intercepting Sewer and appurtenant work, Yetman & Garofolo, Frankford avenue and Hellerman street, Philadelphia, \$9,350. Levick Street Sewer and appurtenant work, George F. Dobbin, 1020 South Forty-seventh street, Philadelphia, \$7,770. Orthodox Street Sewer and appurtenant work, Yetman & Garofolo, Frankford avenue and Hellerman street, Philadelphia, \$37,270. Northeast Sewage Treatment Works, Force Mains and Influent Conduit, V. Jafolla, Pennsylvania Building, Philadelphia, \$38,615.

Schedule D—Paving Wings and Shoulders. Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$118,888.

Schedule F—Contract 102, demolition of building, Sorrentino House Wrecking Co., 921 Catharine street, Philadelphia, \$28,139. Contract 213, South Philadelphia Track Elevation, Sewers and Water Mains, Vincent Jafolla, Pennsylvania Building, Philadelphia, \$144,362.40.

Apartment House, Mt. Airy Section. Own-

er taking sub-bids due as soon as possible. Architect, private plans. Owner, A. A. Shatten, 308 Real Estate Trust Building, Philadelphia. Brick, steel, 4 stories and basement, vapor heat, electric light, slag roof, oak and pine floors.

Apartment House, north of Woodbine avenue, Philadelphia. Architect and owner taking sub-bids. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Edward Pearl, 5929 Belmawr avenue, Philadelphia. Brick, steel, terra cotta, 4 stories, 108x155 feet, 50 apartments, slag roof, vapor heat, tile work, elevators, electric light.

Store and Offices, 3217 Chestnut street, 3234-50 Woodland avenue, Philadelphia. Architect taking bids due April 3rd. Architect, Frank E. Hahn, 629 Chestnut street, Philadelphia. Owners, Blair & Co., Inc., 5225 Chestnut street, Philadelphia. Limestone, terra cotta, 2 stories, contains 10 stores on Chestnut street and 5 stores on Woodland avenue, Philadelphia.

Mill (add.), Northwest corner Gillingham and Torresdale avenue, Philadelphia. Owners taking bids due April 2nd. Architect, C. W. Wiste, 1733 North Marvine street, Philadelphia. Owners, Whitehall Knitting Mills, Torresdale and Gillingham street.

Store Building, 5536 North 5th street, Philadelphia. Work contemplated. Architect, private plans. Owner, Walter J. Diener, 2112 North Front street, Philadelphia. Brick, 1 story, 18x100 feet.

Loft Building, Philadelphia. Plans in progress.

Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel, 5 stories and basement, 138x108 feet, slag roof, pine floors, elevators, sprinklers, water and dampproofing, steam heat, electric light.

Gas Station, Southwest corner 7th and Delancey streets, Philadelphia. Permit issued. Architect, private plans. Owners, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 1 story, 10x24 feet.

Residence, \$2,800, 3925 Ridge avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Elmer Lasher, 3051 North 35th street, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, pine floors, hot water heat, electric light.

Factory, 32nd street and Allegheny avenue, Philadelphia. Architect taking bids due April 1st, 11 A. M. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Reyburn Manufacturing Co., on premises. Reinforced concrete, brick, 5 stories and basement, 245x100 feet, bond, excavation, demolition, reinforced concrete work, hollow tile, safety treads (Mason or equal), metal sash (Trusecon Fenestone or equal), hollow metal doors (Jamestown), elevator doors, rolled steel doors, metal toilet partitions (Sanymetal or equal), slag roof, carpentry and millwork, iron stairs, terrazzo, marble, slate roof, architectural terra cotta, electric work, elevators, vacuum steam heat, plumbing, pipe covering, sprinkler system, concrete floors, floor hardener (Trusecon), fire doors.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

School Printing Shop and Building, Sixteenth and Allegheny avenue, Philadelphia. Contract awarded McCloskey Co., 1620 Thompson street. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Joseph's House for Homeless and Industrious Boys, Rev. T. J. Parks and D. Cardinal Dougherty, 18th and Summer streets, Phila. Brick, reinforced concrete, limestone, steel, bond, demolition, excavation, concrete and cement work, stone concrete foundations, concrete footings, concrete roof slab, cement floors, iron stairs, area gratings (Irving), metal window guards, iron fence, stone tile (Penn-Jersey Stone Tile Corp.), incinerators (Kerner or equal), granite, bluestone, car-

penry and mill work, oak and pine floors, caulking (Sterling Products or equal), hardware, weather stripping (Chamberlain or equal), kalamein doors, hollow steel doors and trim (Dahlstrom or equal), metal toilet stalls (Sanymetal Products or equal), vault doors, hollow metal sash and frames, roof ventilators, membrane waterproofing (Karnack, Minmaw, Hydroseal or equal), steel sash, galvanized steel sash (Philadelphia Supplies Co., Inc., or equal), dumb waiter (Energy or equal), medicine cabinets and mirrors, marble and terrazzo floors (Rubberstone or equal), tile work, painting, glazing, Armstrong cork tile floors, leaded glass, gypsum roof, R. I. W. waterproofing, block floors, school, 170x57



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feet, 4 stories and basement, service building, 85x29 feet, 2 stories and basement, printing shop, 1 story, 54x124 feet.

Residence and Garage, Chestnut Hill, Pa. Contract awarded R. C. Ballinger Co., 925 Walnut street, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Frederic Rosengarten, New and Prospect avenue, Chestnut Hill. Stone, steel, 2 stories, 115x34 feet, wing 20x49 feet, bond, excavation, stone foundations, waterproofing, caulking, brick work, cement floors, linoleum, flagstone, soapstone, tile work, marble work, area gratings, vault doors, metal frames and sash (Henry Hope & Son, C. Crittall Casement Co., J. S. Thorn), narpentry and mill work, oak and pine floors, promenade tile roof, metal lath, plastering, aloustiral treatment (Johns Manville), painting, glazing, medirine cabinets, hardware (allowance \$1,240), copper roof.

Store and Office, Northeast Corner Broad and Spruce streets, Philadelphia. Contract awarded Golder Construction Co., 1600 Arch street, Philadelphia. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owner, Edwin Wolf, care of architect. Limestone, terra cotta, brick, steel, 2 stories and basement, 40x114 feet, slag roof, wood and tile roof, structural steel, electric light, plumbing, marble work.

Alterations and Additions, 6339-41 Woodland avenue, Philadelphia. Contract awarded L. Rosengarten, Otis Building, Philadelphia. Architect, Construction Department, 245 Fifth avenue, New York. Owner, J. J. Newberry, 5-10 25-Cent Store, 245 Fifth avenue, New York. Excavation, bond, concrete work, fireproofing, brick, granite, hollow tile, terra cotta coping, metal lath, plastering, damp-proofing, tile, structural steel, iron work, window guards, grilles, carpentry and mill work, maple floors, copper store front, hardware, sheet metal work, Barrett Specification roof, dre doors and trim, metal ceilings, elevator doors, plumbing, steam heat, electric work.

Sunday School, Rhawn and Cunard streets, Philadelphia. Contract awarded Metzger & Company, Otis Building, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Bethany Baptist Church, Rev. A. Ballback, 2112 Hennig street. Brick, steel, 2½ stories and basement, 60x45 feet, slate roof, oak and pine floors, excavation, steam heat, electric light, rolled steel sash, bond.

Stores (3), 25-27-29 East Cheltenham avenue, Philadelphia, \$22,000. Contract awarded Fred Elvidge, 5409 Germantown avenue, Philadelphia. Owners, B. B. Lister & Son, on premises. Demolition, excavation, waterproofing

(Hydroseal), brick, hollow tile, Truseon waterproofing, concrete and cement work, floor hardener, cast stone, steel and iron work, Barrett Specification roof, roof ventilators (Star), plastering, stucco, painting, glazing, metal store fronts (Kawneer Co.), 1 story and basement, 70x51 feet.

Office Building (alts.), Southwest Corner Tenth and Chestnut streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., E. C. Barnes, Ninth and Sansom streets, Mr. Traffe. Concrete, cement, terra cotta block, structural steel, sheet metal work, Johns Manville roof, marble, tile, terrazzo work, plastering, metal lath, brick work, reinforced concrete, waterproofing, painting, glazing. Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia.

Buildings (add.), Delaware avenue and Bigler street, Philadelphia. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia. Architect, H. J. Levinson, 1619 Sansom street, Philadelphia, engineer. Owners, Publicker Commercial Alcohol, H. Publicker, on premises. Brick, steel, 4 stories and basement, 52x88 feet, boiler room, 4 stories, 50x50 feet, slag roof, cement floors, steel sash.

Alterations, Tenth Floor, Northeast Corner Fifth and Chestnut streets, Philadelphia. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Estate of Stephen Girard, Stephen Girard Building, Philadelphia. Painting, glazing, marble, tile, carpentry, mill work, partitions.

Store Building (alts. and add.), 5611 Germantown avenue, Philadelphia. Contract awarded William F. Koelle, 1633 Race street, Philadelphia. Architect, private plans. Owners, F. W. Woolworth Co., Wilkes-Barre, Pa. Brick, steel, 2 stories, 35x30 feet, slag roof (plumbing, heating, electric reserved), slag roof, cement and oak floors, plastering, painting, glazing, carpentry, mill work.

Hosiery Mill, Lycoming and G street, Philadelphia. Contract awarded William F. Lotz, Frankford and Oxford avenues, Philadelphia. Architect, private plans. Owners, Integrity Hosiery Co., care of John D. Bruley, 728 West Dorset street, and Joseph Ritchie, 730 Dorset street, Philadelphia. Details undecided.

Factory, North side Canal street, West of Fountain street. Contract awarded H. M. Watson Co., 20 South Fifteenth street, Philadelphia, \$20,000. Architect, private plans. Owners, Collins & Aikman, on premises. Brick, 1 story, 61x40 feet.

Manufacturing Building (alts.), \$10,000.

Northeast Corner Richmond and Tioga streets, Philadelphia. Contract awarded United Engineers & Constructors, 112 North Broad street, Philadelphia. Owners, Philadelphia Gas Works Co., Broad and Arch streets, Philadelphia. General alterations.

Warehouse, \$150,000. Southwest Corner Swanson and Ritner streets, Philadelphia. Contract awarded Raymond Goldstein, Water and Wolf streets, Philadelphia. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owners, Superb Realty Co., Water and Wolf streets, Philadelphia. Brick, 2 stories, 120x140 feet, slag roof.

Warehouse, \$140,000. Southeast Corner Ritner street and Water street, Philadelphia. Contract awarded Raymond Goldstein, Water and Wolf streets, Philadelphia. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owners, Superb Realty Co., Water and Wolf streets, Philadelphia. Brick, 2 stories, 120x140 feet, slag roof.

Warehouse, East side Water street, South of Ritner street. Contract awarded Raymond Goldstein, Water and Wolf streets, Philadelphia. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owners, Superb Realty Co., Water and Wolf streets, Philadelphia. Brick, 2 stories, 100x140 feet, slag roof, \$120,000.

Manufacturing Building (add. and alts.), \$15,000. Southeast Corner Montgomery and Marvine streets, Philadelphia. Contract awarded Turner Construction Co., 1700 Walnut street, Philadelphia. Owners, Bayuk Cigar, Inc., Ninth and Columbia avenue, Philadelphia. Brick, 4 stories add., 37x11 feet, general alterations.

Alterations and Addition, \$18,000. Fifth and Cherry streets, Philadelphia. Contract awarded Paul Brosz, 2511 West Huntingdon street. Architect, private plans. Owner, T.

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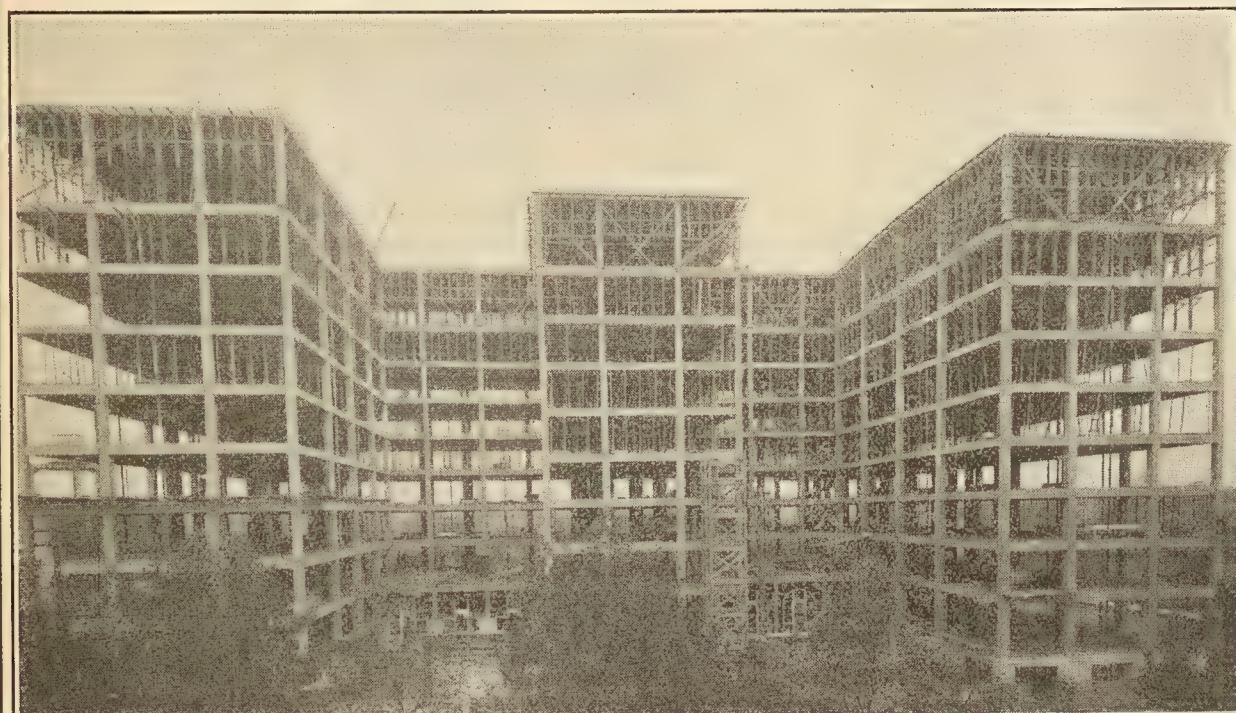
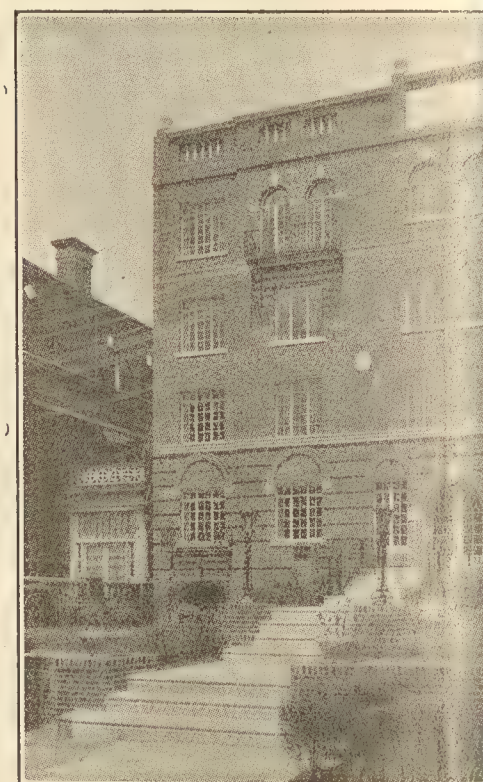
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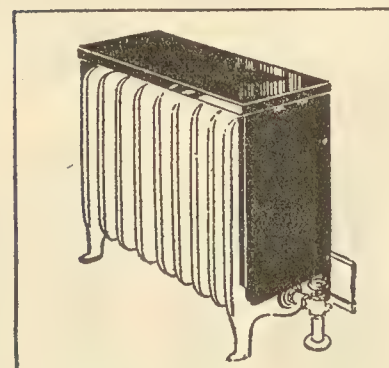
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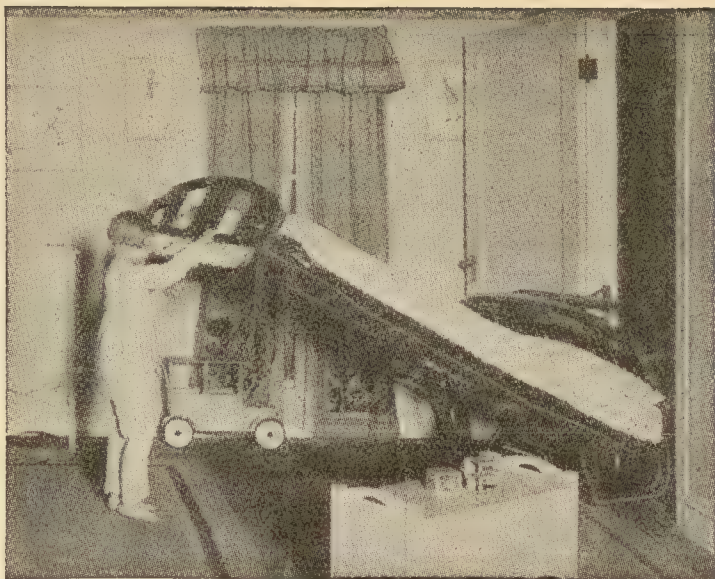
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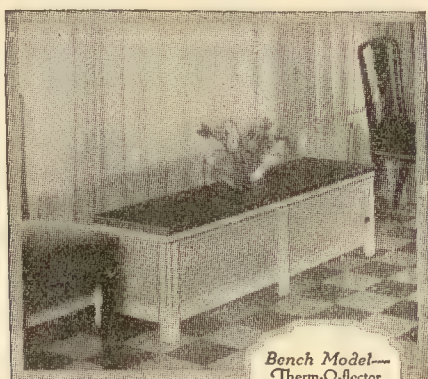
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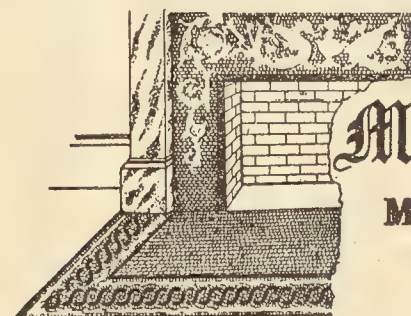
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Residence (add.), \$3,250. 4555 Worth street, Philadelphia. Contract awarded Gaetano Salvato, 2211 West Thompson street, Philadelphia. Owner, Guiseppi Paono, on premises. Brick, 2 stories add., 16x22 feet.

Residence (add.), \$2,000. 502 West Springer street, Philadelphia. Contract awarded David Resnick, 5247 Jefferson street, Philadelphia. Architect, private plans. Owner, Louis Winkelman, 708 Heyman Building, Philadelphia. General alterations and addition.

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Stable, \$18,000. 444 West Mt. Pleasant avenue, Philadelphia. Contract awarded Charles P. Trois, 743 East Penn street, Philadelphia. Architect, private plans. Owner, Edward C. Quinn, 630 West Phil-Ellena street, Philadelphia. Brick, 2 stories, 40x33 feet, 37x71 feet.

Residence, \$3,500. South side Rhawn street, West of Verree road, Philadelphia. Contract awarded Smith & Hallstrom, 7943 Oxford avenue, Philadelphia. Architect, private plans. Owner, Warren Smith, 7943 Oxford street, Philadelphia. Frame and brick, 2 stories, 18x30 feet, hardwood and pine floors, electric light.

Residence and Store (gen. alts.), 2920 Frankford avenue, Philadelphia. Contract awarded William Schoppe, 4616 Frankford avenue, Philadelphia. Owner, Hannah A. Buck, on premises. General alterations.

Contract No. 213. Contract awarded Kauffman Construction Co., 26 South Fifteenth street, Philadelphia. Owners, Department of City Transit, Thirteenth Floor, City Hall Annex. No. 213, track laying between South street and North of Girard avenue, sewers and water mains.

Stores and Apartments (4), Southwest Chelton and Beechwood avenues, Philadelphia. Contract awarded I. Alterman, 5400 B street, Philadelphia. Architect, private plans. Owner, W. Levin, on premises. Brick, steel cast-stone, 2 stories, 17½x60 feet, slag roof, cement and hardwood floors, tile work, metal ceiling, flush bulks.

Warehouse, \$160,000, D near Erie avenue, Philadelphia. Contract awarded J. S. Rodgers Co., Drexel Building, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners Edgecomb Steel Co., Leslie Edgecomb, President, 11th and Cambria streets, Philadelphia. Brick, 2 stories, steel, concrete, 240x156 feet, steam heat, electric light, slag roof, cement floors, rolled steel sash.

Residence (alts.), Willow Grove avenue, Chestnut Hill, Pa. Contract awarded Stewart Bros., 2526 North Orkney street, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South 18th street, Philadelphia. Owner, Henry J. Platt, Esq., Laverock, Pa. Brick, stone, metal lath, area gratings, Penn Building Block, cement floors, Indiana limestone, slag roof, walnut and linoleum floors, carpentry, millwork, plastering, painting.

Church, 20th and Cherry streets, Philadelphia. Contract awarded H. H. Burrell & Son, 206 South Quince street, Philadelphia. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, St. Clement's Episcopal Church, Rev. E. Jouver, 20th and Appletree streets, Philadelphia. Cement floors, slate and tin roof, iron work, demolition, shoring, underpinning, reinforced concrete, miscellaneous iron work, plastering, painting, glazing, sheet metal work, carpentry and millwork, hardware, heating, plumbing, electric work, bond, terra cotta, stone, flagstone, excavation, dampproofing, metal sash.

Alterations and Addition, 58 North Front street, Philadelphia. Contract awarded J. Y. Loux, Inc., 15th and Hunting Park avenue.

Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Andreykovicz & Dunk, Inc., care of architect. Steam heat, electric light, carpentry and millwork, painting, glazing, plastering.

Apartment House (add. and alts.), \$13,000, 1717-19 Green street, Philadelphia. Contract awarded John N. Gill Construction Co., Franklin Trust Building, Philadelphia. Owners, Bush Rod James Estate, on premises. Fire tower addition, general alterations.

Pennsylvania Construction News

Club House, Jenkintown, Pa. Work contemplated. Architect, L. Walton Heiss, West avenue and Cottman street, Jenkintown. Owners, Jenkintown Chapter, Order of De Molay, E. R. Ambler, Abington Township Building, Jenkintown, Pa. Brick, steel, 1 story and basement, 70x100 feet, slag roof, cement floors, will contain gymnasium, bowling alleys, kitchen equipment.

Residence and Garage, \$75,000. Panorama and Mt. Pleasant road, Villa Nova, Pa. Plans in progress. Too early for details. Architects, Mellor and Meigs, 201 South Juniper street, Philadelphia. Owner, W. Curtis Bok, Morris Building, Philadelphia.

Bank Building, Burmont avenue, Aronimink, Delaware County, Pa. Work contemplated. Architect not selected. Owners, Sixty-ninth Street Terminal Title & Trust Co., Sixty-ninth and West Chester Pike, Upper Darby, Delaware County, Pa. Size of building, 55x150 feet.

Residences, \$85,000 to \$150,000 (number undecided), Spring Mill road and Montgomery avenue, Villa Nova, Pa. Work contemplated. Architect not selected. Owner, Eugene L. Townsend, 1421 Chestnut street, Philadelphia. Details undecided.

Building, Lancaster avenue and Athens road, Rosemont, Pa. Work contemplated. Architect not selected. Owner, A. Wesley Long, Lancaster avenue and Church road, Ardmore, Pa.

Residence and Garage, Drexel Hill, Delaware County, Pa. Work contemplated. Owner, A. Addis Ziegler, Drexel Hill, Delaware County, Pa. Architect not yet selected.

Housing Development, Pugh road, between West Valley road and Eagle School road, Wayne, Pa. Work contemplated. Architect not yet selected. Owners, J. Harper Chadwick & Co., Fifteenth and Locust streets, Philadelphia.

Gymnasium and Swimming Pool, \$125,000. Academy Manor, Harrisburg, Pa. Preliminary plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Harrisburg Academy, care of Dr. Brown, Academy Manor, Harrisburg, Pa. Brick and steel.

Science Building and Gymnasium, Pottstown, Pa. Preliminary sketches in progress. Raising funds. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Hill School, James I. Wendell, Headmaster, Pottstown, Pa. Stone.

Schools (2). Laurel Bend and Croyden, Pa. Revised plans in progress. Architect, Charles H. Jester, 141 South Fifty-second street, Philadelphia. Owners, Bristol Township School, E. A. Smith, Newportville, Pa.

Residences, Bethlehem, Pa. Preliminary plans in progress. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Mrs. B. Dietrixhe and Miss Anna Uhl, care of architects. Brick, 3 stories, irregular size, slate roof, hardwood floors, tile and marble, steam heat, electric light.

Wolf Junior High School (alts.), Easton,

Pa. Preliminary plans in progress. Architect, E. H. Wenzelberger, 224 Northampton street, Easton, Pa. Owners, Easton School Board, William Peifer, secretary, Second and Church streets, Easton, Pa. Partition work, toilets, tile, marble, plastering.

Store and Apartment, Polk and Fourth streets, Bethlehem, Pa. Plans in progress. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Rev. E. A. Stiegler, 621 East Fourth street, Bethlehem, Pa. Brick, 2½ stories, 36x50 feet, slate roof, maple floors, hot water heat, electric light, tile work.

School, Wyomissing, Pa. Plans in progress. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Roman Catholic Church, Rev. J. Wachter, Wyomissing, Pa. Stone, 2 stories, 120x60 feet, auditorium, 45x70 feet.

Residences (103), Wayne avenue, between Chester pike and Hanford road, Crum Lynne, Delaware County, Pa. Plans in progress. Architect will sub-let. Architect, Charles Jester, 141 South Fifty-second street, Philadelphia. Owners, English Village Syndicate, care of architect. Brick, 2 stories, various sizes, slag roof, hardwood floors, hot water heat, electric light, tile work.

Residences and Garages (2), Hillcrest avenue, Springfield, Delaware County, Pa. Owner taking sub-bids. Architect, private plans. Owner and builder, Thomas J. Kelley, Clifton Heights, Delaware County, Pa. Stone, brick, clapboard, 2 stories, 28x26 feet each, garage, 18x20 feet, shingle roof, hardwood floors, central heat, electric light, tile.

Stores (3), Apartments and Garages, West Chester and Naylor's Run road, Llanerch, Delaware County, Pa. Owners taking sub-bids. Architect, Charles C. Schweiker, 1209 Garfield avenue, Manor Heights, Pa. Owners and builders, Fisher & Miller, Inc., Manoa, Delaware County, Pa. Stone, cement block and bricks, 2 stories, 20x62 feet, 18x62 feet, slate and slag roof, oak and pine floors, metal ceilings, hot water heat, electric light, tile work, metal lath, hollow metal skylights, flush bulks, fire escapes.

Residences (10 single and 10 twin), Manoa, Delaware County, Pa. Owners taking sub-bids. Architect, Charles C. Schweiker, 1209 Garfield avenue, Manor Heights, Pa. Owners and builders, Fisher & Miller, Inc., Manoa, Delaware County, Pa. Stone, brick, 2 stories, 18x37 feet, 18x43 feet, shingle roof, oak and pine floors, cement block, electric light, central heat, tile work.

Residences (100), Upper Darby, Pa. Plans in progress. Owner will build. Architect, Ivon H. Blackman, Jr., 5237 Warrington avenue, Philadelphia. Owners, J. A. Mozino & Co., Upper Darby, Pa. Brick, 2 stories and basement, 17x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, oak and pine floors, ornamental iron work.

Residences (1,000), Cynwyd Estates, Pa. Work contemplated. Owner will build. Architect, private plans. Owner, P. J. Lawler, Upper Darby, Pa. Stone, brick, 2½ stories and basement, various sizes, slate and shingle roof, oak and pine floors. Work started on 20 residences.

School, Morrisville, Pa. Architect will be ready for revised bids April 1st. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, Holy Trinity Roman Catholic Church, D. Cardinal Dougherty, Eighteenth and Summer streets, Philadelphia; Rev. W. A. Haynes, Morrisville, Pa. Brick, 2 stories and basement, slag roof, steam heat, electric light.

Bank Building (alts. and new front), High and Hanover streets, Pottstown, Pa. Architects will be ready for bids April 15th. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Security Trust Co., Dr. J. Elmer Porter, Pottstown, Pa. Stone, brick, steel, 1 story and basement.

Stores (16) and Apartments, York road, Noble, Pa. Owner and builder taking sub-bids. Architect, W. Ellis Grobem, 1051 Sixty-ninth avenue, Philadelphia. Owner, Harry H. Keller, 423 Newbold road, Jenkintown, Pa. Brick, stucco, half timber, 2 stories, 20x30 feet each, slag and slate roof, hardwood floors, hot water heat, electric light, tile work, flush bulks.

Residence and Garage, Drexel Park, Delaware County, Pa. Owner and builder will sub-let. Architect, Harold E. Williams, 2265 Garrett road, Drexel Park, Delaware County, Pa. Owner, Walter L. Davenport, 1519 North Fifty-eighth street, Philadelphia. Stone, 2½ stories, 40x50 feet, shingle roof, hardwood floors, hot water heat, tile work.

Power Plant, \$100,000. Middletown, Pa. Plans completed. Architect ready for bids. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Odd Fellows' Home of Pennsylvania, Middletown, Pa. Brick, concrete, 1 story, 50x50 feet, slag roof, cement floors, electric light, rolled steel sash.

Residence (alts. and add.), Churchville, Bucks County, Pa. Architect ready for bids in a few days. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Howard S. Levy, Churchville, Bucks County, Pa. Hollow tile, stucco, 2 stories, 25x25 feet, shingle roof, hot water heat.

Bungalow, Plumsteadville, Bucks County, Pa. Plans completed. Owner ready for bids. Architect, Harry Hestand, Doylestown, Pa. Owner, Leidy Myers, Wismer, Bucks County, Pa. Concrete block, 1 story, 26x40 feet, slate roof, yellow pine floors, hot water heat, electric light.

Residence and Garage, Marple Hills, Pa. Owner and builder will build and is ready for sub-bids. Architect, Harold E. Williams, 2265 Garrett road, Drexel Park, Pa. Owner, J. W. Murray, 3 Berbro avenue, Harwood Park,

Pa. Stone, clapboard, 2½ stories, 35x70 feet, shingle roof, hardwood and cement floors, hot water heat, electric light, tile work.

Residence, Hill road, Reading, Pa. Plans completed. Architect ready for bids. Architect, Israel Demchick, 1701 Chestnut street, Philadelphia. Owner, Bernard Resnick, 826 Christian street, Philadelphia. Brick, hollow tile, stone, 2½ stories, 39x28 feet, slate roof, hardwood floors, hot water heat, tile work.

Apartment House, Upper Darby, Delaware County, Pa. Owner and builder taking sub-bids. Architect, Herman H. Kline, 709 Chestnut street, Philadelphia. Owner, Harry J. Hurley, 114 Ashby road, Upper Darby, Pa. Brick, 4 stories and sub-basement, 60x80 feet, slag roof, hardwood floors, elevators, vapor heat, electric light, oil burners, tile and marble work, steel casements.

Residences and Garages (6), Upper Darby, Delaware County, Pa. Plans in progress. Owner will build and sub-let. Architect, private plans. Owner, Harry J. Hurley, 114 Ashby road, Upper Darby, Pa. Stone and clapboard, 2½ stories, 27x37 feet 6 inches, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Residence and Garage, Spring Mill road and Montgomery avenue, Villa Nova, Pa. Architect taking sub-bids due March 29th. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, Thomas E. Hare, 919 Walnut street, Philadelphia. Stone, 2½ stories, 28x139 feet, shingle roof, hardwood floors, hot water heat, electric light, tile and marble work.

Church, Easton, Pa. Architect will be ready for bids next week. Architect, A. D. Chidsey, Jr., 239½ Northampton street, Easton, Pa. Owners, First Moravian Church, Rev. Robert Giering, Easton, Pa. Brick, steel, 1 story and basement, 40x100 feet, slate roof, maple floors, steam heat, electric light.

Residences and Garages (20), Holly road and Church lane, Yeadon, Delaware County, Pa. Owners and builder taking sub-bids, about to start work. Architect, private plans. Owners, Goldstein Brothers, care of Louis Goldstein, 1999 North Fifty-second street, Philadelphia. Brick, stone, 2 stories, 18x60 feet, tile roof, hardwood floors, central steam heat, electric light, tile work.

Airport, Bristol, Pa. Architects, Airport Development & Construction Co., 1620 Mitten Building, Philadelphia. Owners, Keystone Air Craft Corporation, Bristol, Pa. Brick, steel, hollow block, 1 story, 90x286 feet, steel truss, built-up roof, plumbing, ventilating, sprinkler, heating, electric, rolling doors. T. H. Latta, 1926 Sansom street, Philadelphia, taking bids for the architect due March 29th.

Residence and Garage, Montgomery avenue and Spring Mill road, Villa Nova, Pa. Architect will sub-let and is taking bids on excavation, carpentry and masonry. Architect, S. W. Marshall, 1524 Chestnut street, Phila-

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delphia. Owner, Thomas E. Hare, 919 Walnut street, Philadelphia.

Residences (4), Cresmont Farms, Torresdale, Pa. Architect taking bids. Architect, John B. Kane, 10 South Eighteenth street, Philadelphia. Owners, Cresmont Farms Improvement Co., care of architect. Stone, 2½ stories and basement, 20x40 feet (heating and plumbing reserved), shingle roof, oak and pine floors, electric light, tile work, ornamental iron work.

Residences (3), 468-69-70 Merion Golf Manor, Pa. Architects taking bids due March 28th. Architects, Wallace & Warner, 1500 Chestnut street, Philadelphia. Owners, William H. Wilson Co., 1617 Walnut street, Philadelphia. Stone, brick, limestone, excavation, bond, iron work, concrete and cement work, flagstone, cinder concrete block (Straub), oak, pine and cement floors, carpentry and mill work, hardware, structural steel, area gratings, metal lath, plastering, painting, glazing, casement sash (Thorn, Feneston, Lupton), slate roof (variegated), slag roof, plumbing, hot water heat (American or H. B. Smith or equal), oil burner (alternate), American radiators, electric work, tile work, shingle roof. No. 468, 2 stories and basement, 48x26 feet, garage 20x18 feet. No. 469, 2½ stories and basement, 42x26 feet, garage 20x18 feet. No. 470, 2½ stories and basement, 35x34 feet, garage 18x11 feet. Separate bid on each house.

Residences and Garages (3), P-5, B-9, F-9, Merion Golf Manor, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners taking bids due March 28th. Owners, W. H. Wilson Co., 1617 Walnut street, Philadelphia. Stone, hollow tile, stucco, excavation, brick work, cement, oak, yellow pine floors, sheet metal work, shingle roof, iron work, tile floors, carpentry and mill work, metal lath, plastering, painting, glazing, hardware (heating, plumbing, electric, finished hardware, refrigerator, screens, weather strip reserved). P-5, 2½ stories and basement, 54x27 feet, garage 23x19 feet. B-9, 2½ stories and basement, 46x26 feet, garage 20x18 feet. F-9, 2½ stories and basement, 41x25 feet, garage 20x18 feet. Separate estimates on each house.

Greenhouse, \$50,000. Bryn Mawr, Pa. Architects taking bids due as soon as possible. Architects, William H. Lutton Co., Jersey City, N. J. Owner, E. M. De Sherbinin, Bryn Mawr, Pa. Glass, stone, 99x25 feet, shingle and glass roof, stone foundations (plumbing, heating, electric reserved).

Residence (alts. and add.), Easton, Pa. Ar-

chitect taking bids due April 1st. Architect, William M. Michler, Drake Building, Easton, Pa. Owner, J. F. Magee, 613 Paxinosa avenue, Easton, Pa. Brick, 2 stories add., irregular size, general interior alterations.

Mill Building (add.), \$200,000, Allentown, Pa. Architects taking bids due April 2nd. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Arcadia Knitting Mills, 749 Harrison street, Allentown, Pa. Brick, steel, 4 stories, basement and sub-basement, 67x307 feet, built-up roof, concrete floors, hollow tile, elevators, waterproofing and dampproofing, fire doors, steel sash, electric light.

School, Ford and Union streets, Bridgeport, Pa. Plans in progress. Architect, Peter Getz, Victory Building, Philadelphia. Owners, Our Lady of Mt. Carmel Roman Catholic Church, Rev. Brimo Mannella, Bridgeport, Pa. Brick, 1 story, 83x126 feet, slag roof.

Residence and Garage, \$100,000. Yocum road, Bryn Mawr, Pa. Plans in progress. Architect, George R. Denton, Ladbroke avenue, Bryn Mawr, Pa. Owner, Eric M. De Sherbinin, Sycamore and Cross roads, Bryn Mawr, Pa. Stone, 3 stories, steam heat, electric light, tile and marble work, hardwood floors, swimming pool.

Laundry Building, Bloomsburg, Pa. Owners taking bids. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Bloomsburg State Teachers' College, Dr. T. B. Haas, Bloomsburg, Pa. Brick, steel, 1 story, 85x36 feet, slag roof, cement floors, steel sash.

Convent, Bethlehem, Pa. Owners taking bids due April 1st. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, St. John's Hungarian Church, Bethlehem, Pa. Brick, 2½ stories, 35x58 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Stores and Apartments (4), Lincoln Highway, Paoli, Pa. Work contemplated. Architect, private plans. Owner and builder, Lowell S. Gable, Paoli, Pa. Brick, 2 stories.

Residence (alts. and add.), Mechanics Valley, Bucks Co., Pa. Plans completed. Architect ready for bids. Architect, A. Oscar Martin, 20 Main street, Doylestown, Pa. Owner, Webster S. Archey, Doylestown, Pa. Hollow tile, stucco, 2 stories, 20x20 feet, asbestos shingle roof, pine floors, hot water heat, electric light.

Residence and Garage, Haverford, Pa. Plans in progress. Architects, Folsom, Stanton & Graham, 10 South 18th street, Philadelphia. Owner, Henry J. McLean, 521 South

52nd street, Philadelphia. Stone, 2½ stories, hot water heat, electric light, tile work, slate or tile roof, hardwood floors.

Service Station, Croyden, Pa. Owner will sub-let. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner and builder, Howard Leister, Croyden, Pa. Brick and stucco, 1½ stories, 16x30 feet, tile roof, cement and pine floors, hot water heat.

Manual Arts School, Hatboro, Pa. Architect, W. Walter Whitman, Harrisburg, Pa. Owners, Hatboro School Board, F. W. Hosler, Hatboro, Pa. Low bidders: Chancellor Day, 3504 Rhawn street, Philadelphia, \$12,588; Hood & Gross, 1535 Chestnut street, Philadelphia, \$13,492.

Dye House (add.), 8th and Harrison streets, Allentown, Pa. Architects taking bids due April 2nd. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Arcadia Knitting Mills, 749 Harrison street, Allentown.

Consolidated School, Sellersville and Perkasie, Pa. Owners taking bids due April 12th. Architect, E. Wm. Martin, Dupont Building, Wilmington, Del. Owners, Joint School Board of Sellersville and Perkasie, M. Keller.

Pennsylvania Contracts Awarded

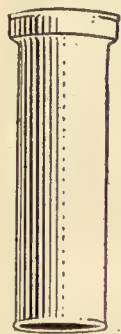
Residence and Garage, Glenview road, Bryn Mawr, Pa. Contract awarded Samuel Harting & Son, 20 East Johnson street. Architect, J. L. Conarroe, 1518 Walnut street, Philadelphia. Owner, Malcolm Adam, Haverford, Pa. Stone, 2½ stories and basement, 79x35 feet, concealed radiators (Rome Brass Radiators), excavation, hollow tile and cinder block, structural steel, casement sash (Lupton Finestra or equal), shingle roof, tile and marble work, carpentry and mill work, oak and pine floors, cement floors, metal lath, plastering, painting, glazing, hardware, electric work, plumbing, wrought iron pipe (Beyers or Reading), brass pipe (Bridgeport or equal), radiators (U. S. Radiator or Weil-McLain Co. or equal), boiler (Weil-McLain), flagstone.

Church Building (alts. to present Sunday School), Bangor, Pa. Contract awarded F. H. Wilson, Oakmont, Upper Darby, Pa. Architect, J. B. Thompson, 1321 Arch street, Philadelphia. Owners, Salem Evangelical Church, Rev. J. R. Torkin, Bangor, Pa. Stone, 1 story, 45x52 feet, bond, demolition, excavation, concrete work, waterproofing (Builders Spec.), floor hardener, stone masonry, cast stone, brick work, structural steel, miscellaneous iron work, black slate roof, metal skylights, composition floors, carpentry and mill work, pine floors, iron grills, plastering, metal lath, painting, glazing, hardware, plumbing, sanitary drainage system, steam heat, radiators, electric work, cinder concrete block (Straub), Lihnophol (L. Sonneborn).

Residence and Garage, Bryn Mawr, Pa. Contract awarded Unkerfer Brothers Construction Co., Otis Building, Philadelphia. Architect, Ralph L. Colton, 1520 Locust street, Philadelphia. Owner, Mrs. Charles H. Burr, 115 South Twenty-first street, Philadelphia. Brick, 2½ stories, 44x32 feet, 18x21 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Bungalow, Montgomeryville, Pa. Contract awarded Stahl & Walton, Willow Grove, Pa. Owner, James Watt, 524 East Penn street, Philadelphia. Concrete block, 1½ stories and basement, 28x44 feet, shingle oak and pine floors, hot water heat, electric light.

Residences and Garages, Jenkintown, Pa. Contract awarded Allen Construction Co.,



FLUE LINING, WALL COPING, SEWER PIPE

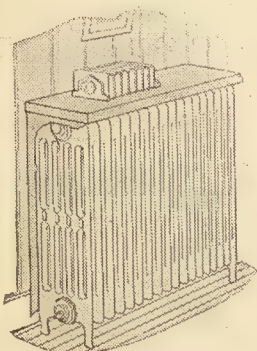
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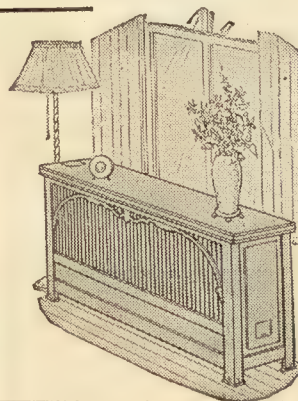
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1642 Hunting Park avenue, Philadelphia, who are taking sub-bids, dus as soon as possible. Architect, private plans. Owner, name withheld. Stone, stucco, 2½ stories and basement, 27x40 feet, 35x40 feet, slate roof, oak and pine floors, hot water heat, electric light, tile, ornamental iron work.

Residence, Wayne, Pa. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia. Owner, Mrs. Frederick W. Ristine, Wayne, Pa. Architects, Bissell & Sinkler, 1562 Locust street, Philadelphia. Stone, steel, brick, 2½ stories, irregular in size, built-up slate roof, oak, cement and cork floors, waterproofing and dampproofing, wire screens, caulking, flagstone, metal lath, tile work, rolled steel skylights, hollow metal sash, area gratings, cinder concrete block.

Hotel (Abraham Lincoln) and Garage, Fifth and Washington streets, Reading, Pa. Contract awarded Hunkin Conkey Construction Co., Cleveland, Ohio. Architect, W. L. Stoddard, 50 East Forty-first street, New York City. Owners, Reading Hotel Corporation, Chamber of Commerce, Reading, Pa. Reinforced concrete, brick, steel, limestone, 15 stories and basement, 154x100 feet, garage, 2 stories and basement, 154x100 feet, concrete roof, steel tank, excavation, integral waterproofing (A. C. Horn or equal), dampproofing, slag roof, steel gratings and doors, steel partitions, bronze work, steel sash, elevator enclosures, hollow steel doors and trim, imitation caen stone, ornamental plaster, tile, marble and terrazzo work, linoleum floors, oak floors, tile roof.

Residence and Garage, Huntingdon Valley, Pa. Contract awarded Roy Randall, Jenkintown, Pa. Architect, Donald Cochrane; associate, E. H. Wigham, Jr., 535 Central avenue, Cheltenham, Pa. Owners, W. & M. Herkness, Land Title Building, Philadelphia. Stone, brick, 2½ stories and basement, 30x80 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, casement windows, ornamental iron work, flagstone, soapstone.

Residence and Garage, Merion avenue, East of Hirst avenue, Penfield, Pa. Contract awarded W. L. Davenport, 1519 North Fifty-eighth street, Philadelphia. Architects, Casner & Williams, Drexel Park, Delaware County, Pa. Owners, Clinton D. Stiefel, care of Northern Trust Co., Sixth and Spring Garden streets, Philadelphia. Brick, 2½ stories and basement, 32x72 feet, slate roof, oak and pine floors, hot water, electric light, metal lath, tile work, bond, ornamental iron.

Filling Station, Forest and York road, Elkins Park, Pa. Contract awarded Hesswin Co., Oak Lane Trust Building, Philadelphia. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Trugas & Oil Co., Estey Building, Philadelphia. Cinder block, stucco, limestone, 1 story, 48x25 feet, bond, demolition, excavation, concrete walks, cinder blocks, carpentry and mill work, iron and steel, steel sash, cement floors, plumbing, steam heat, boiler (Ideal), radiators (Corto), electric work, slate roof (John D. Emaek Co.).

Residence and Garage, Odgen avenue, West of Walnut lane, Swarthmore, Pa. Contract awarded George Gillespie & Co., Rutgers avenue and Chester road, Swarthmore, Pa. Architect, John W. Platt, 334 East Upsal street, Philadelphia. Owner, Dr. W. F. G. Swann, 127 North Nineteenth street, Philadelphia. Stone, 2½ stories and basement, 59x21 feet, 22x23 feet, bond, excavation, plastering, cement, flagstone, concrete block, hollow tile, tile and marble work, slate roof, oak, pine, cement floors, asbestos shingle roof, electric light, hot water heat, concealed radiators, brass pipe, plumbing.

Residence and Garage, \$35,000. Minden Manor, Wynnewood, Pa. Contract awarded Frank H. Wilson, Ardmore Theatre Building, Ardmore, Pa. Architects, Wallace & Warner, 1500 Chestnut street, Philadelphia. Owners, W. Clarke Grieb and Frank W. Cortright, 1617 Walnut street, Philadelphia. Stone, frame, 2½ stories, 70x58 feet, shingle roof, hardwood floors, hot water heat, tile and marble work.

Store (alts.), \$8,000. Doylestown, Pa. Contract awarded A. E. Eckert, Doylestown, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, W. P. Ely & Son, Doylestown, Pa.

Factory and Administration Building, Lansdale, Pa. Contract awarded Powell Construction Co., Ardmore, Pa. Architects, Franklin & Conner, Lansdale, Pa. Owners, Franklin Pottery Co., Lansdale, Pa. Brick, steel, 2 stories and basement, 500x80 feet, 120x68 feet, bond, excavation, reinforced concrete work, Lapitolith (L. Sonneborn & Son), concrete floors, screens, shades, steel stairs, awnings, steel sash (Lupton), steel doors (Lupton), gypsum slate, slag roof, carpentry and dumb waiter (Energy), caulking, metal lath, dampproofing (Toch Brothers), Sanymetal toilet partitions, sprinkler system, electric work, plumbing, wrought iron pipe, brass pipe, Hoffman controlled heating, boiler (Erie City Iron Works), oil burners.

Consolidated School, Kulpville, Pa. Contracts awarded. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Towamencin Township School Board, Leidy S. Kriebel, secretary, Lansdale, Pa. Brick, hollow tile, 1 story, built-up roof, composition floors, roof ventilators, bond, fire doors, steel sash. General contractor, H. C. Shallcross, Gratersford, Pa., \$16,930. Plumbing contractor, J. C. Troxel, R. F. D. 2, Lansdale, Pa., \$900.

Residence and Garage, Willow Grove, Pa. Contract awarded Stahl & Walton, Willow Grove, Pa. Architect, private plans. Owner, Charles H. Guent, 203 Allen lane, Willow Grove, Pa. Brick, frame, 2½ stories and basement, shingle roof, oak and pine floors, electric light, tile work.

Public Library, Bethlehem, Pa. Contract awarded F. F. Speck Construction Co., 51 West Walnut street, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, City of Bethlehem, 53 East Broad street, Bethlehem, Pa. Stone, brick, steel, 1 story and basement, 40x100 feet, slate roof, hardwood floors, vapor heat, electric light, tile work.

Residences (4), Elkins Park, Pa. Plans in progress. Contract awarded Allen Construction Co., 1642 Hunting Park avenue, Philadelphia. Architect, private plans. Owner, name withheld. Stone, frame, 2½ stories and basement, various sizes, shingle roof, oak and pine floors, hot water heat, electric light.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa.

Lawrence County, R-4918, North Beaver Township. One course reinforced concrete. J. D. Devine Co., Meadville, Pa., \$41,329.80.

Lehigh County, A-6052, Coplay Borough. One course reinforced concrete. Kulpmont Construction Co., Kulpmont, Pa., \$13,585.58.

Columbia County, A-5190, Berwick Borough. One course reinforced concrete. O. P. Bell Construction Co., Inc., Sunbury, Pa., \$59,777.24.

Residence, Newtown, Pa. Contract awarded C. Y. Stradling, Newtown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, J. J. Burns, Newtown, Pa. Brick, 2½ stories, 40x26 feet, 16½x12 feet, asbestos shingle roof, hot water heat, stone foundations, electric light, tile work.

Residence and Garage, Norwood, Delaware County, Pa. Contract awarded Louis N. Devons, 13 North 13th street, Philadelphia. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owner, Herman Oeschger, Franklin Trust Building, Philadelphia. Stone and clapboard, 2½ stories, 28x38 feet. Shingle roof, hardwood floors, hot water heat, tile work.

Hosiery Mill, Bloomsburg, Pa. Contract awarded Aaron C. Jury, Bloomsburg, Pa. Architects, The Ballinger Co., 12th and Chestnut streets, Philadelphia. Owners, Bloomsburg Hosiery Mills, Bloomsburg, Pa. Brick, steel 1 story, 61½x82 feet, sawtooth roof, cement floors.

New Jersey Construction News

Residence, Merchantville, N. J. Plans in progress. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, name withheld. Frame, 2½ stories, 40x60 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Schools (3) (No. 4, No. 7 and Collins Tract), East Pensauken, N. J. Plans in progress. Architect, Walter Thomas Mayo, Tem-

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ple Building, Camden, N. J. Owners, Pensauken School Board, care of H. B. Copehart, 221 North Forty-fifth street, North Merchantville, N. J. Brick, 1 story, built-up roof, cement floors, heating extension (heating, plumbing and electric separate).

Residences (8), Thirty-sixth street and Freemont avenue, Camden, N. J. Plans in progress. William G. Mummaw Co., 301 Morse street, Camden, N. J., will sub-let. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, name withheld. Brick, 2 stories, 18x32 feet, slag roof, pine floors, hot water heat, electric light.

Duplex Houses (3), Roosevelt and Freemont avenue, Camden, N. J. Plans in progress. William G. Mummaw, 301 Morse street, Camden, N. J., will sub-let. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, name withheld. Brick, 2½ stories, 22x35 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work.

Fire House. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Knottingham Volunteer Fire Co., care of architects. Location: Hamilton Township, N. J. Plans in progress. Brick, 2 stories, 35x60 feet, slag roof, reinforced concrete and hardwood floors, steam heat, electric light, steel sash.

Rooming House, Store and Apartment (add.), 119 South South Carolina avenue, Atlantic City, N. J. Owner ready for bids. Architect, Joseph E. Lippincott, Guarantee Trust Building, Atlantic City, N. J. Owner, Mrs. K. Jacobs, on premises. Brick, 3 stories, 22x40 feet, slag roof, hardwood floors, hot water heat, electric light.

College, 854-58 Federal street, Camden, N. J. Architects will be ready for bids in one week. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, South Jersey Law School, Elmer G. Van Nomo, 503 Market street, Camden, N. J. Brick, limestone, 3 stories, 52x120 feet.

Dye House (add. and alts.), Atlantic City, N. J. Owners taking sub-bids. Architect, J. E. Lippincott, Guarantee Trust Building, Atlantic City, N. J. Owners, Rodman Cleaning & Dyeing Co., Delaware and Drexel avenues, Atlantic City, N. J. Brick, steel, second story add., 25x175 feet, slag roof, pine floors, roof ventilators, electric light, steel sash.

Hotel, Atlantic City, N. J. Preliminary plans in progress. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner, name withheld. Fireproof, 18 stories, 250x180 feet.

Shop, New York and Reading avenues, Atlantic City, N. J. Plans in progress. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owners, Fisher Sign Co., care of architect. Brick, 1 story, 60x80 feet, slag roof, concrete floors, hot water heat, electric light, steel sash, skylights, hollow metal doors.

Hotel, 3405 Pacific avenue, Atlantic City, N. J. Plans in progress. Architect, A. F. Amodio, Schwehm Building, Atlantic City, N. J. Owners, Penn Syndicate, care of H. D. La Cato, Schwehm Building, Atlantic City, N. J. Fireproof, 10 stories, 40x110 feet, slag roof, gypsum floors, elevators (2), metal weather strip, cast stone incinerators, ornamental iron, bond, iron stairs, fire doors, steel sash, vapor heat, electric light, oil burners.

Hospital Annex, Somers Point, N. J. Plans in progress. Architect, A. F. Amodio, Schwehm Building, Atlantic City, N. J. Owners, Atlantic Shores Sanitarium, Somers Point, N. J., care of Dr. Frank Inksetter, Somers Point, N. J. Brick, frame, steel, 3 stories, 36x80 feet, slag roof, maple and linoleum floors, safety treads, waterproofing, fire doors, steel sash, tile, marble, vapor heat, electric light.

Apartment, Atlantic City, N. J. Plans in progress. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, name withheld. Steel, brick, frame, 3 stories, 35x78 feet, slag roof, hardwood floors, hollow tile, waterproofing, electric light, metal lath, tile work.

School, Millville, N. J. Architect, Alexander Merchant, New Brunswick, N. J. Owners taking bids due April 3rd, 7.30 P. M. Owners, Board of Education, E. W. Rumbf, Millville, N. J. Brick, cast stone, steel, 2 stories and basement, 159x114 feet, limestone, tile, marble, terrazzo, California stucco, metal lath, Straub cinder block, brass pipe, bond, excavation, reinforced concrete and cement work, Poretone (Porete Mfg. Co.), waterproofing, membrane hollow tile, ornamental plastering, Majestic coke chutes, iron stairs, metal window guards, safety treads, built-up roof (Johns Manville or Barrett), roof ventilators (Royal or equal), rollet steel skylights, metal toilet partitions, composition floors (Rubberstone, Tiletex or equal), linoleum floors, kalamein doors, maple floors. Certified check, 5 per cent. Deposit, \$25, refunded.

Residence and Garage, Montclair, N. J. Architect taking bids due April 1st. Architect, John T. Simpson, 45 Walnut street, Newark, N. J. Owner, Frank Gibson, Montclair, N. J. Stone, 2½ stories and basement, 51x28 feet, slate roof, oak and pine floors, plumbing, hot water heat, electric light, metal lath, tile work, ornamental iron work.

Apartment, North Side, Atlantic City, N. J. Owner sub-letting. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, R. G. Edwards, Carolina Crest Hotel, Atlantic City, N. J. Brick, steel, 3 stories, 34x145 feet, slag roof, pine floors, hot water heat, electric light, tile work.

Municipal Building and Court House, Camden, N. J. Owners will be ready for bids within two weeks. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Commissioners of the City of Camden and Camden County Board of Chosen Freeholders, Court House, Camden, N. J. Granite, steel, brick, 5 stories (tower, 21 stories), 138x356 feet, deck promenade, tile roof, concrete floors, hollow tile, elevators, safety treads, roof ventilators, metal window guards, waterproofing, dampproofing, wire work, acoustical treatment, area gratings, bronze, wrought iron pipe, brass pipe, ornamental iron work, soundproofing, iron stairs, bond, kalamein doors, hollow metal doors, steel skylights, steel sash, tile, marble, terrazzo, metal lath (heating, plumbing and electric work separate).

Residences (5), \$25,000. 1490-98 South Ninth street, Camden, N. J. Permit issued. Architect, private plans. Owner, Conrad Lambert, 1427 South Ninth street, Camden, N. J. Brick, 2 stories, 14x48 feet and 16x55 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Dormitory, Colony for Feeble Minded, New Lisbon, N. J. Low bidders. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, steel, brick, stucco, 2½ stories, 200x60 feet, maple floors, asbestos shingle roof, hollow tile, waterproofing and dampproofing, wire work, cast stone, blue-stone, caulking, ornamental iron, iron stairs. General: Hugh B. Miller, Edgewater Park, N. J., \$41,199; J. E. Kolster, Beverly, N. J., \$42,894. Plumbing: Burns, Lane, Richardson Co., New Brunswick, N. J., \$4,725. Heating: George D. Worrell, Mt. Holly, N. J., \$3,848. Electric, Ernest S. Milligan, Mt. Holly, N. J., \$2,019.

Dairy Barn, Colony for Feeble Minded,

New Lisbon, N. J. Low bidders. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Stucco, steel, 1 story, 60x32 feet, slate and shingle roof, concrete floors, roof ventilators, metal window guards, caulking. General: J. E. Kolster, Beverly, N. J., \$3,725; William C. Cook, Mt. Holly, N. J., \$4,484. Plumbing: George C. Worrell, Mt. Holly, N. J., \$415. Electric: Peter Peifer, Trenton, N. J., \$215.

Senile Building, Greystone Park, N. J. Owners taking revised bids due April 3rd. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioners, State House, Trenton, N. J. Brick, steel, 2 stories and basement, 223x56 feet, Johns Manville built-up roof, bond, excavation, membrane waterproofing integral waterproofing, dampproofing, cinder concrete block, limestone, granite, blue-stone, iron, iron stairs, metal window guards, area gratings hollow metal doors and trim, kalamein doors and sash, slate roof, cement and maple floors, steel lockers, caulking, linoleum, tile, marble, Alberne stone, painting, glazing.

Bridge, over Morris avenue, Route 29, Sec. 2A, Union County, N. J. Owners taking bids due April 8th at noon. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, West State street, Trenton, N. J. Concrete, reinforcing steel, structural steel, asphalt block, concrete piles, excavation. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Low bidders. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route 25, Section 20, Contract 23, from Grove street to City Line at Edgar road, Elizabeth, Union County, N. J., A. Stryker, Inc., \$214,998.50. Alexauken Creek Bridge over Alexauken Creek, Route 29, Hunterdon County, N. J., F. L. Grant Co., West Chester, Pa., \$20,046.60.

Contract 122, Highway Bridge, Delaware Township, N. J. Low bidder, E. P. Henry & Son, Woodbury, N. J., \$24,907.15. Architect, private plans. Owners, Camden County Park Commissioners, Wilson Building, Camden, N. J. Reinforced concrete, 118 feet long, curbs, sidewalks, paving, 58,477 pounds reinforced steel, 1,680 feet hardwood piling, 176 feet L. L. Y. P. railings, 806 square feet, waterproofing, bronze plate.

Contract 121, Street Grading. King's Highway along Cooper River, Earlton, Delaware Township, N. J. Low bidder, W. Penn Corson, 119 White Horse pike, Haddon Heights, N. J., \$11,307.50. Architect, private plans. Owners, Camden County Park Commissioners, Wilson Building, Camden, N. J. 19,100 cubic yards grading.

Exchange Building, Woodbury, N. J. Plans in progress. Architect will be ready for bids in 10 days. Architect, John T. Wimdrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., of New Jersey, Woodbury, N. J. Brick, 2 stories.

New Jersey Contracts Awarded

Hotel, \$75,000. Eighth street, near Boardwalk, Ocean City, N. J. Contract awarded without competition to D. A. McClelland, Drexel Building, Philadelphia, who will be ready for sub-bids in a week. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Hanscom Brothers, Inc., 734 Market street, Philadelphia. Brick, steel, 6

stories and basement, 40x75 feet, slag roof, cement, oak and pine floors, elevators, electric light, metal lath, tile work steam heat, medicine cabinets.

Hotel (add.), South Arkansas avenue, Atlantic City, N. J. Contract awarded Raymond Wochner, 1408 Emerson avenue, Venice Park, N. J. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, name withheld. Brick, steel, 3 stories, 50x16 feet, slag roof, hardwood floors, metal weather strip, copper work, skylights, tile, marble.

Stores (2) and Apartments (3), Maple Shade, N. J. Contract awarded H. Bowman, 1047 Beideman avenue, Camden, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Leonard's Department Store, Maple Shade, N. J. Brick, concrete block, 2 stories, 50x65 feet, slag roof, pine floors, waterproofing and dampproofing, steel sash, electric light, hot water heat.

Residences (22), \$3,500 each. 200-22 and 201-19 Morse street, Camden, N. J. Contract awarded Whittaker Brothers, 5417 South Browning road, Pensauken, N. J. Architect, Charles H. Roberts, 112 South Sixteenth street, Philadelphia. Owners, Bridge-Garden Corporation, 325 Market street, Camden, N. J. Brick, 2 stories, 18x38 feet, Carey roof, hot water heating, electric lighting.

Contract 30-5, Swimming Pool, Gloucester City, N. J., \$24,290. Contract awarded Robbins Contracting Co., 1137 North Front street, Philadelphia. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Camden County Park Commissioners, Wilson Building, Camden, N. J. Reinforced concrete, 180x100x9 feet, 338 feet wire fence, wrought iron pipe.

Locker Room and Recreation Building, Gloucester City, N. J., \$46,402. Contract awarded Robbins Contracting Co., 1137 North Front street, Philadelphia. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Camden County Park Commissioners, Wilson Building, Camden, N. J. Cinder block, stucco, 2 stories, 100x57 feet, Barrett Specification roof, cement floors, metal partitions, lockers, electric light, steel sash, stools.

Miscellaneous Construction News

Auditorium, Newark, Del. Architect will be ready for bids in 10 days. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, University of Delaware, Newark, Del. Brick, marble, fireproof, 1 story and gallery, 72x125 feet, seating capacity 1,000.

Residence, Westover Hills, Wilmington, Del. Architect taking bids due March 28th. Architect, S. W. Pike, 1520 Locust street, Philadelphia, and 105 Creston avenue, Audubon, N. J. Owner, Earl E. Edinger, 1501 West Ninth street, Wilmington, Del. Brick, steel, 2½ stories and basement, 37x35 feet, wing 42x16 feet, wing 15x12 feet, bond, demolition, excavation, Master Builders' plaster bond, limestone, flagstone, concrete work, area gratings, metal lath, copper roof, plastering, shingle roof, tile and marble work, oak and pine floors, metal casement sash, hardware, plumbing, wrought iron pipe (Byers or Reading), brass pipe, electric work, vapor heating, lighting fixtures, screens, weather strip, linoleum and cork floors, hardware, plumbing fixtures, wrought ornamental iron work.

Grade School, Minguadale, Del. Owners taking bids due April 1st. Owners, School Building Committee, Perry E. Swanson, Tenth and King streets, Wilmington, Del. Brick, concrete and timber roof, 1 story, 159x31 feet.

Certified check, 5 per cent., or bid bond. Deposit, \$25, refunded.

Grade School, Stanton, Del. Owners taking bids due April 8th. Owners, School Building Commission, Charles P. Dickey, Stanton, Del. Brick, concrete, timber roof, 1 story, 144x37 feet. Certified check, 5 per cent., or bid bond. Deposit, \$25, refunded.

School, Rose Hill, Del. Owners taking bids due April 8th, 2.30 P. M. Owners, School Building Commission, Perry E. Swanson, Eleventh and King streets, Wilmington, Del. General construction, steel, iron, roofing, painting, masonry, carpentry, plumbing, heating, electric, ventilation. Certified check, 5 per cent., or bid bond. Deposit, \$25, refunded.

Road Work, Delaware. Owners taking bids due April 9th, at 2 P. M. Owners, State Highway Department, Dover, Del.

Contract 2D, Garrison's Mill and Roadway and Bridge Replacement. Excavation, borrow, cement concrete pavement, concrete reinforcement, corrugated metal pipe, removal of temporary bridge, wood guard rail, timber piling, sheet piling.

Contract 104B, Milford Bridge, Steel Superstructure. Structural steel, track plates, machinery, locks buffer, traffic plates, reinforced steel, B. M. flooring, concrete counterweight, concrete roadway, pipe railing, motor, electric equipment, operator's house.

Contract 113, Law's School-Harrington, 4.77 miles. Clearing, grubbing, excavation, borrow, broken stone base course, cement concrete pavement, reinforcement, corrugated metal pipe, R. C. pipe, wood shoulder curb.

Contract 120, Laurel-Independence School, 3.73 miles. Excavation, borrow, broken stone base course, cement concrete pavement, Class A concrete, corrugated metal pipe, reinforcement, R. C. pipe, wood shoulder curb. Certified check, 10 per cent. Deposit, \$2.00.

Chapter House, University avenue, Ithica, N. Y. Architect taking bids due as soon as possible. Architect, Otis Fuller, 6 North Michigan avenue, Chicago. Owners, Alpha Chi Rho Fraternity, Phi Theta Building Association, on premises.

Miscellaneous Contracts Awarded

School, Farmington, Kent County, Del. Contracts awarded. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Dover, Del. Brick, concrete, timber, 1 story 92x34 feet. General contractor, Andrew J. Murray, Georgetown, Del., \$20,000.

Building Alterations, 6th avenue and 50th street, New York City. Contract awarded Huhn Smith Harris, Inc., 225 West 34th street, New York City. Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, Bickford's Lunch System, 362 West 50th street, New York. Granite, brick, steel, 1 story 20x30x75 feet, bronze work, steam heat, revolving doors, electric work, tile, marble and terrazzo floors, architectural terra cotta, plumbing.

John Charles Norton, Architect, of Ardmore, Pa., has opened a branch office for the convenience of his suburban clientele at 336 Lenox Road, Brookline, Upper Darby, Pa. Samples and catalogues requested.

David Supowitz and Shander Berger, Associated Architects, have moved their offices to 260 South Fifteenth Street, Philadelphia.

J. B. Harman, Architect, 54 North Queen Street, Lancaster, Pa., will be located after April 1st, 1929, in the new Fulton National Bank Building, Lancaster, Pa.

BUILDING INDUSTRY HOLDS KEY TO FIRE-SAFETY OF FUTURE

A service of utmost importance to America can be rendered by the construction industry—a service that may result in saving hundreds of human lives and millions in property values. The industry is establishing standards and endeavoring to raise the efficiency of methods in order to eliminate duplication of effort and to curtail waste. Now a new element comes to the fore. The construction of fire-safe buildings is of equal importance with the other achievements of the industry. In fact, building to resist fire is essential to the nation's economic welfare, for when a building is destroyed by fire there is a senseless waste of materials. A loss caused by interruption of business or occupancy of the home, follows. Both builders and owners have reason to be interested in fire-safe construction: one from a professional viewpoint, the other from a business angle. As a matter of fact, from the owner's standpoint, the better the protection against fire, the lower will be the cost of insurance.

No longer are fire insurance companies merely distributors of losses; they are now charged with the public service of preventing fires and the resultant losses. The reason for their interest in fire-safe construction is therefore evident. Again, since insurance is the basis of credit, it is an important associate of the construction industry, which is dependent upon credit for the means to operate.

A sure way to curtail America's intolerable fire waste is so to construct buildings that they will resist fire originating within or without until the firemen arrive, and to use combustible materials where necessary in such a way as not to increase the burning rate of the structure. So large an objective cannot be obtained quickly; it must come as a process of evolution, starting in the design, where architects are in a position to do much for the future fire-safety of the country. Apparently architects in the past have been concerned principally with the three factors of appearance, arrangement and cost of the buildings they designed, while the element of fire-safety received much less attention. Some, indeed, made a careful study of fire prevention engineering, but on the average little interest was evidenced beyond the specific requirements of building codes. This does not imply that architects opposed fire prevention, but simply that they failed to realize the urgent importance of the subject because it had never been presented to them with sufficient force.

Presumably building laws throughout the United States were prepared after consideration of purely local problems,

rather than scientific data or the experience of the entire country, for there is a wide diversity in many of the fundamental requirements. As a result, an architect who is called upon to design structures in different communities may find that requirements vary considerably. Probably waste in the use of building material results. . . . Standardization of building laws is a basic factor in the elimination of waste of materials during construction, as well as in curtailing fire losses, and the importance of such a program is evident.

For a number of years The National Board of Fire Underwriters has been actively endeavoring to educate the public how to build safely and to protect individual buildings and cities. It has compiled a model building code, describing safe construction, which it distributes gratis to those interested in the subject. Not only the National Board, but also the insurance rating and inspection bureaus in the various states, stand ready at all times to give advice, free of charge, upon building ordinances or methods of construction which will aid in lessening the great annual fire waste. A number of cities have adopted this model code as a whole, while many others have used extracts from it freely in the preparation of local building laws. In order to co-ordinate all the present-day information affecting building construction, the National Board's Recommended Building Code is now undergoing careful revision.

While he was Secretary of Commerce, President Hoover recognized the necessity for a central co-operating body to standardize, as far as possible the building laws of the country, and he organized the Bldg. Code Comm. for that purpose. Composed of well-known experts in various branches of building construction and insurance, this voluntary committee was given the benefit of constructive criticism by manufacturers, industrial associations, architectural and engineering societies and others, and a report was submitted to the Secretary of Commerce on recommended minimum requirements for small dwelling construction, part of which was briefly stated in the form of ordinances for municipal adoption.

As the Government printed this report and distributed thousands of copies throughout the country, one beneficial result was the practical use of it in building codes by municipalities; another was greater uniformity in codes throughout the country. Undoubtedly it also proved useful to owners and builders of dwellings generally. The Committee has continued its work to the present day, making seven reports on recommended minimum requirements for building construction. There can be no great benefit from these codes, however, unless architects and the construction industry co-operate

by putting into every building upon which they work the general requirements of fire-safe construction. When this co-operation is a fact, a long step forward for public welfare will be realized.

Many buildings are more or less fire-resistant, but a much greater number will burn very readily; if they are to be built to last and not to burn it is highly essential that the materials which go into their construction shall be of a superior type, at least so far as cost and other conditions warrant.

PRICES, PROFITS AND LABOR SAVING EQUIPMENT

"Profitless prosperity" is the phrase many business men are using to describe the state of their affairs. It means that they have plenty of business but it is taken at such low prices as not to afford a profit. In many respects this is true in the construction industry where there is such a tendency to cut prices that much work is being done better without profit or at a loss.

This was recently shown by Magnus W. Alexander speaking before the New York Building Congress, when he pointed out that although the number of companies engaged in construction work increased from eight thousand to fifteen thousand between 1918 and 1925, only thirty-seven companies reported a net income of more than \$100,000 during this entire eight year period.

The point stressed by Mr. Alexander, which is one that the whole building industry may well consider, is that with price competition as keen as it is, builders must make use of every possible labor-saving device and equipment. Building activities must be "mechanized" and engineering research and equipment must be used to speed up work and cut down costs by use of building machinery and equipment.

Development of construction equipment will not only reduce overhead and cut costs but will tend to prevent labor troubles, Mr. Alexander points out. As competition in the building industry continues to grow more keen, this is the only path open for builders who may hope to continue to run a profitable business.

—*Building Age.*

SIMPLIFYING MILLWORK SPECIFICATIONS SAVE MONEY

One of the very worthwhile activities spurred on by that very worthwhile organization, the Building Congress, is the attempt to organize local branches of the construction industry to simplify designing, specifying, estimating and contracting of building materials. The first step has been the publication of a report giving simplified specifications for best local

practise with respect to millwork and finished lumber.

Representatives of the leading organizations engaged in cutting, estimating, contracting, erection or use of architectural woodwork have co-operated to develop standard specifications for this material.

The specifications agreed on thoroughly cover the use of lumber, carpentry and millwork, including such matters as grades and sizes, seasoning, kinds and qualities of work, thickness, stock finishes and various other details such as, for example, ious other details such as, for example, dow, exterior hardwood, veneered door, window sills and tongued casings.

This practise of getting all the men in a given branch of the building business together and having them agree on standard recommendations for their products, is extremely beneficial to the members of the industry in that locality. Philadelphia may well be proud of the steps its builders are taking to eliminate confusion and waste, and other cities may well follow in her footsteps.

—*Building Industry.*

WE ASK YOU

Isn't it funny?
THAT A MAN WHO CONSIDERS
HIMSELF A BUSINESS MAN
Will get up in the morning
From an advertised mattress,
And put on advertised underwear,
Advertised hose, shirt, collar, tie and shoes.
Seat himself at a table and
Eat advertised breakfast food,
Drink advertised coffee or substitute,
Put on an advertised hat,
Light an advertised cigar,
Go to his place of business and
TURN DOWN ADVERTISING ON THE
GROUND THAT ADVERTISING DOESN'T
PAY!

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

"Facts are stubborn things." Advertise only the truth about your product and watch the result.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.
—John D. Rockefeller.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Metalweld, Inc., 26th and Hunting Park Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Charles Warner Co., Union Bank Bldg., Phila., Pa.
Service Supply Corp., 20th & Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

S. Libman, 629 College Ave., Pittsburgh, Pa.
Malia, Thos. J., 226-32 W. Mentor St., Phila.
Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th St. and B. & O. R. R., Wilmington, Del.
New Jersey Cast Stone Co., Vineland, N. J.

CEMENT

Charles Warner Co.,
Union Bank & Trust Bldg., Phila., Pa.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub. Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Well, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

FIREPROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING-COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.
Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.
Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

Selby Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

GUARDS (Machine and Engine)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.

Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

Whartenby, Harry A., 1823 Brandywine St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.

Weber, F., Co., 125 S. 12th St., Phila.

Well, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 So. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

LUMBER

Ketcham, Howard, 3rd and Girard Ave., Phila.

MARBLE

Frank W. Butterworth, 1518 Walnut St., Phila.

MARBLE AND MOSAIC

Belf Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

MASON BUILDER

D'Lauro, John, 7732 Ardleigh St., Phila.

METAL DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

METAL LATH

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

METERS

Phila. Meter Co., Real Estate Trust Bldg., Phila.

PAVING BRICKS

Ketcham, O. W., 121 N. 18th St., Phila.

PHOTOSTATS

Weber, F., Co., 125 S. 12th St., Phila.

PILES

Foundation & Construction Co., 1320 Race St., Phila.

PLASTER (Colored)

California Stucco Products Co., 1316 Olive St., Phila.

PLASTER BOND

PLASTERERS

Keen Bros., Merchantville, N. J.

PLASTERING (Ornamental)

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

PORCH ENCLOSURES

Malia, Thos. J., 226-32 W. Mentor St., Phila.

RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

RADIATOR SHIELDS AND CABINETS

Acme Radiator Shield & Inclosure Co.,
2206 Chestnut St., Phila.

J. D. Gerken Co., 1015 Chestnut St., Phila.

REFRIGERATORS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

REINFORCING BARS

Milton Mfg. Co., Milton, Pa.

Montgomery Iron & Steel Co., 2500 Duncan St., Phila.

Penn Steel Service Co., Fuller Bldg., Phila.

ROAD MACHINERY

Service Supply Corp., 20th & Venango Sts., Phila.

ROLL SCREENS

American Metal Weatherstrip Co., 2115 Diamond St.
Malia, Thos. J., 226-32 W. Mentor St., Phila.

ROOFING

John Nacey Co., 7254 Paschall Ave., Phila.

Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING MATERIALS

MacGarvie, James B., Magnolia, N. J.

John Nacey Co., 7254 Paschall Ave., Phila.

Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING SLATE

Chapman Slate Co., Bethlehem, Pa.

ROOFING TILE

Hood Tile Co., S. E. Cor. Chestnut & 13th Sts., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

SAFETY TREADS (Grating)

Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

SAND AND GRAVEL

Charles Warner Co., Union Bank Bldg., Phila., Pa.

The Van Sciver Corporation,
The Parkway at 24th St., Phila.

SCAFFOLDING

Patent Scaffolding Co., 2835 Bridge St., Phila.

SCREENS (Fly)

Malia, Thos. J., 226-32 W. Mentor St., Phila.

SEPTIC TANKS

Philadelphia Septic Tank Co.,
1129 Glenwood Ave., Phila.

SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

SHEETROCK (Wall Board)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

SHELVING (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

SOUNDINGS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

STEEL SASH

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

David Lupton's Sons Co.,
Allegheny Ave. and Tulip St., Phila.

STONE

St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

STUCCO MANUFACTURERS

California Stucco Products Co., 1316 Olive St., Phila.

Mayflower Stucco Co.,
Chestnut Hill, Phila., and Plymouth Meeting, Pa.

SURETY BONDS

Insurance Co. of North America, 1600 Arch St.

Simpson-Anderson Co., Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

TERRA COTTA (Architectural)

Atlantic Terra Cotta Co., Otis Bldg., Phila.

Conkling-Armstrong Terra Cotta Co.,
1600 Arch St., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

TILE AND TERRAZZO WORK

Belf Bros. Co., 1923 Market St., Phila.

Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.

Hood Tile Co., S. E. Cor. Chestnut and 13th Sts., Phila.

Italian Marble Mosaic Co., 433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
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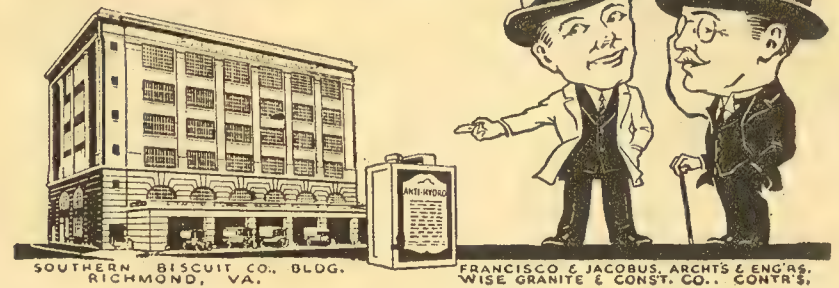
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 14
April 3, 1929

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors
and the Material and Equipment Trades

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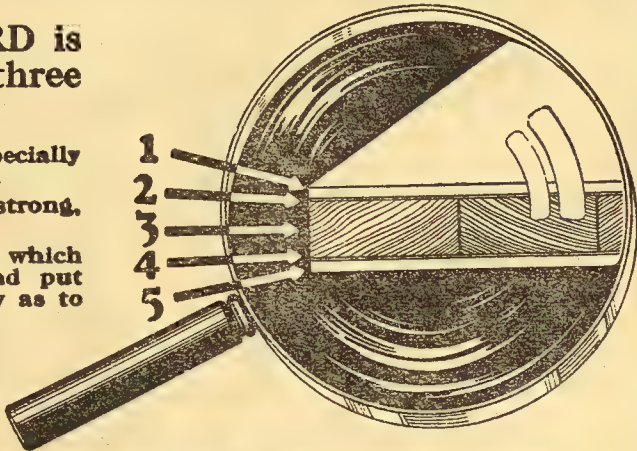
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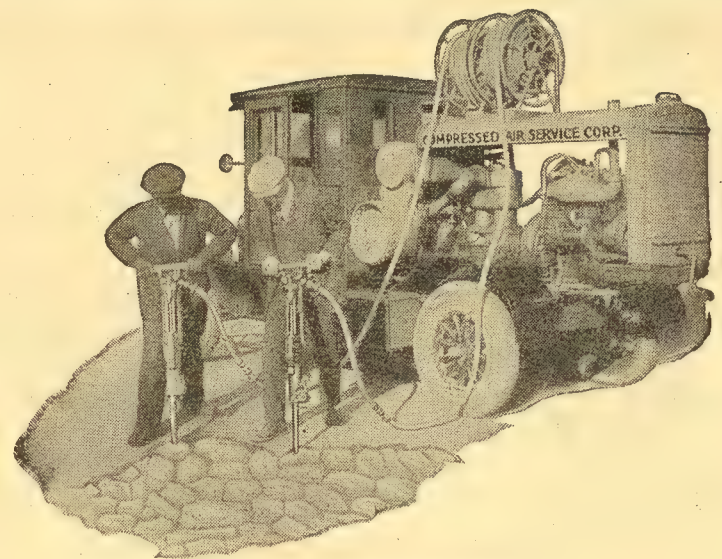
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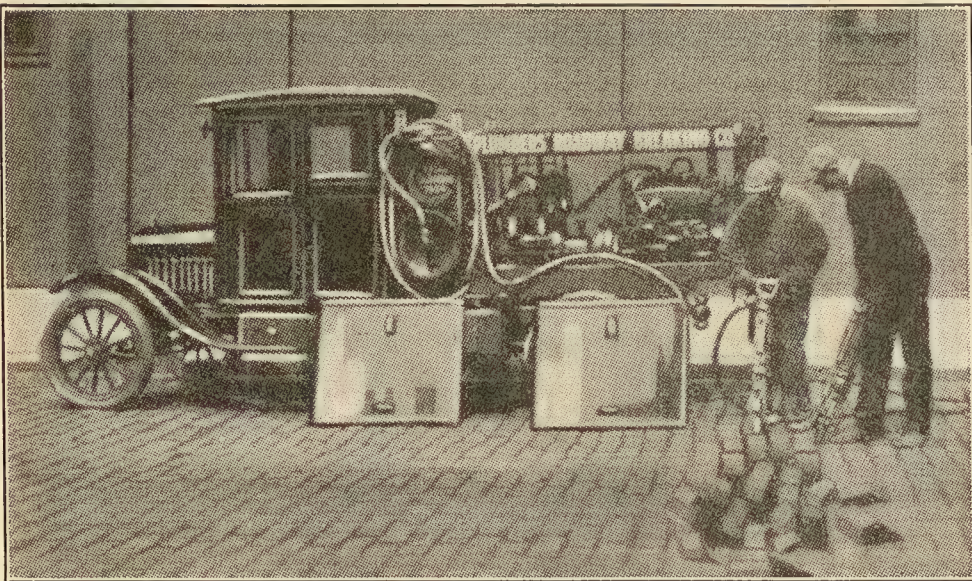
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 14

PHILADELPHIA
April 3, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Service Station, Southwest Corner Nineteenth and Glenwood avenue, Philadelphia. Work contemplated. Architect not selected. Owner, Charles Kahn, Provident Trust Building, Philadelphia.

Residence, Sixth street below Sixty-fourth avenue, Philadelphia. Work contemplated. Owner, Hugh Hamilton, 227 West Tabor road, Philadelphia. Stone, 2½ stories, lot 100x150 feet.

Residence Operation, Ogontz avenue, West of Eighteenth street, Philadelphia. Work contemplated. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, Madway & Madway, 4218 Lancaster avenue, Philadelphia. Brick, steel, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light.

Synagogue, \$300,000. Location undecided. Work contemplated. Architect not selected. Owners, Beth Israel Congregation, Rabbi Marvin Nathan, 3417 Ridge avenue, Philadelphia. Will include school rooms and gymnasium.

Telephone Exchange (Oregon), Southwest Corner Broad and Passyunk avenue, Philadelphia. Plans nearly completed. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, care of H. L. Badger, vice-president, Nineteenth and Arch streets, Philadelphia. Brick, granite, limestone, steel, 3 stories, 175x160 feet, slag roof, cement floors, steam heat, electric light.

School and Rectory, Tenth and Pollock streets, Philadelphia. Plans nearly completed. Architects, Henry D. Dagit & Son, 1329 Race

street, Philadelphia. Owners, St. Richard's Roman Cath. Church, Rev. G. P. Boyle, 1825 Pollock street. Brick, steel, 2 and 3 stories and basement.

Residences (8), Store (1), Aramingo avenue and Sanger street, Philadelphia. Owner taking sub-bids due as soon as possible. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avtue, Philadelphia. Brick, 2 stories and basement, 16x35 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work.

Residences (100), Lawndale, Pa. Owner taking sub-bids due as soon as possible. Architect, private plans. Owner, Harry Izenberg, 1139 Wingohocking street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work.

Warehouse, Woodbine avenue and Upland Way, Overbrook, Philadelphia. Architect will be ready for bids in a few days. Architect, J. B. Harman, Fulton Bank Building, Lancaster, Pa. Owners, Raub Supply Co., West James and Mulberry streets, Lancaster, Pa. Brick, steel, concrete, 3 stories and bastment, 175x110 feet, built-up asphalt roof, cement and maple floors, (3) elevators, roof ventilators, electric light, steel sash, waterproofing and dampproofing.

Garage, Sixth and Mountain stretts, Philadelphia. Owners taking sub-bids due as soon as possible. Architect, Lewis M. Cohen, 519 Real Estate Trust Building, Philadelphia. Owners, Stanley Construction Co., 719 Lincoln Building, Philadelphia. Brick, steel, 2 stories and basement, 45x85 feet, slag roof,

cement floors, steam heat, electric light.

Gymnasium Building, Twentieth and Olney avenue, Philadelphia. Plans in progress. Ready for bids in a few days. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, La Salle College, Brother E. Alfred, president, Broad and Stiles streets. Brick, steel, 4 stories and basement.

Gymnasium Building, Twentieth and Olney avenue, Philadelphia. Architects taking bids due April 8th. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, La Salle College, Brother E. Alfred, president, Broad and Stiles streets. Brick, steel, 4 stories and basement.

Apartment House (alts.), 1204-06 Rockland street, Philadelphia. Owners taking bids. Architect, private plans. Owners, National Engineering Co., H. Henken, Washington Square Building, Seventh and Chestnut streets, Philadelphia. Oak floors, California stucco, painting, glazing, plastering, slag roof, vapor heat, tile baths, electric work.

Cottage, 2201 Belmont avenue, Philadelphia. Owners taking bids due April 11th. Owners, Home for Training of Speech of Deaf Children, on premises. Painting inside of one cottage.

Supplies, Philadelphia. Owners taking bids due April 4th at noon. Owners, Department of Supplies, 302 City Hall Annex, T. F. Watson. Fire hose, steel wardrobes, bituminous materials, cement, fast-hardening cement and ready mixed concsete, footway bricks and vitrified paving bricks, torpedo gravel, slag, trap rock, pebbles and paving gravel, electric supplies, etc. Certified check, 5 per cent.

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Residences (4), 414-16 and 423-25 Longshore St., Phila. \$24,000. Permit issued. Architect, private plans. Owner, Frank A. Adair, 415 Longshore Street, Philadelphia. Brick, 2 stories, 16x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (60), \$242,500. Friendship street, Rowland to Crispin, Philadelphia. Permit issued. Architect, private plans. Owners, Haney & Hannigan, 1447 West Cayuga street, Philadelphia. Brick, 2 stories, 16x30 feet, 12x14 feet, hot water heat, electric light, slag roof, hardwood and pine floors.

Residences (21), North side Fanshawe street, East of Castor road, Philadelphia. Permit issued. Architect, private plans. Owner, Louis Segal, 5602 North Tenth street, Philadelphia. Brick, 2 stories, 16x31 feet, 12x16 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (2), Southeast Corner Verree road and Hartel street, Philadelphia. \$10,000. Permit issued. Architect, private plans. Owner, Edwin Davis, 7802 Verree road, Philadelphia. Brick, 2 stories, 15x40 feet, hardwood and pine floors, slag roof.

Residence (add.), \$3,500. 5247 Chestnut street, Philadelphia. Permit issued. Architect, private plans. Owner, Emma D. Hart, on premises. Brick, 2 stories add., 16x18 feet.

Residences (66), \$248,600. Barnett street, East of Charles street, Philadelphia. Permit granted. Architect, private plans. Owner, George H. McCracken, 3701 North Broad street, Philadelphia. Brick, 2 stories, 15x36 feet, 11x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (9), 5501-07 Aramingo avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Burton C. Simon, Inc., Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 15x32 feet, 12x18 feet, slag roof, hardwood and pine floors, electric light.

Pump House, \$12,000. North side Penrose Ferry avenue, East of Schuylkill River. Permit issued. Owners, Gulf Refining Co., P. O. Box 1567, Philadelphia. Brick, 1 story, 199x34 feet.

Apartment House, \$300,000. North side Kemble street, West of Ogontz avenue, Philadelphia. Permit issued. Architect, I. Demschik, 1703 Chestnut street, Philadelphia. Owners, Carroll Construction Co., 1001 Pennsylvania Building, Philadelphia. Brick, 4 stories, 169x90 feet (irregular), slag roof, hardwood and pine floors, vapor heat, electric light.

Residences (14), \$41,200. North side Bleigh street, East of Ditman street, Philadelphia. Permit issued. Architect, private plans. Own-

er, Carl E. Svoboda, 5346 Locust street, Philadelphia. Brick, 2 stories, 15 feet 6 inches x 35 feet, 11 feet 6 inches x 11 feet, slag roof, pine floors, electric lighting.

Apartment House, \$30,000. Southeast Corner Sixteenth and Champlost avenue, Philadelphia. Permit issued. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, Cloverly Apartment, Inc., W. H. Greenfield, secretary, Sixteenth and Champlost avenue, Philadelphia. Brick, 4 stories, 25x88 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work.

Residence, \$2,500. South side Madison avenue, West of Eighty-sixth street, Philadelphia. Permit issued. Architect, private plans. Owner, Isaac Hill, 520 North Fifty-sixth street, Philadelphia. Brick, 2 stories, 25x28 feet, pine floors, hot water heat, electric light.

Residences (6), East side Central avenue, North of Cottman street, Philadelphia, \$34,800. Permit issued. Architect, private plans. Owner, Fred Redner, 101 Dyers avenue, Cheltenham, Pa. Brick, 2 stories, 16x25 feet, 18x25 feet, hot water heat, electric light, hardwood and pine floors, slag roof.

Boiler Room (add.), \$10,000. Northeast Corner Sixty-fourth and Lebanon avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Lewis Jones, Inc., Sixty-fourth and Lebanon avenue, Philadelphia. Brick, second story add., 41x35 feet, irregular.

Storage Building (add.), \$10,000. 1222 North Belmont avenue, Philadelphia. Permit issued. Architect, private plans. Owners, American Ice Co., 121 North Broad street, Philadelphia. Brick, 1 story add., 59 feet 7 inches x 46 feet, slag roof, electric light.

Department of Wharves, Docks and Ferries, No. 4 South Wharves. A—Bulkhead, East side Girard Point, Sec. 104. Contract awarded F. A. Canuso & Son, 804 South Twelfth street, Philadelphia, \$48,710. E—Improving and enlarging House of Correction. Contract awarded F. A. Canuso & Son, 804 South Twelfth street, Philadelphia, \$95,300. Sec. B and C Bulkheads, Penrose Ferry Bridge, Sections 105-106. Revised plans in progress.

Residence and Garage, 8th and 64th Ave., Oak Lane, Philadelphia. Architect taking bids due as soon as possible. Architect, Albert Dobbins, 1718 Cherry street, Philadelphia. Owner, W. H. Loesch, 5805 North 6th street, Philadelphia.

Residences (24), 77th avenue and Limekiln Pike, Philadelphia. Work contemplated. Owner will build. Architect, private plans. Owner, Herbert Roehm, 515 Pelham road, Philadelphia. Brick, steel, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light.

Apartment House, 3427 North 17th street, Philadelphia. Owner will build, sub-bids due as soon as possible. Architect, Alvin C.

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Bieber, 1520 Locust Street, Philadelphia. Owner, Paul Kolber, 525 Integrity Trust Building, 16th and Walnut streets. Brick, stettl, limestone, 4 stories and basement, 165x50 feet, kitchen equipment, medicine cabinets, oak floors, incinerators, plumbing, electric work, demolition, iron work, carpentry and millwork, painting, glazing, linoleum floors, weatherstripping, screens, metal doors, refrigeration equipment, kalamein doors, steel sash, elevator equipment, cast stone, slag roof.

Residences and Garages (50), Anchor and Langdon streets, Philadelphia. Owner taking sub-bids. Architect, private plans. Owner, James J. Turner, Perry Building, Philadelphia. Brick, 2 stories and basement, 15x34 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work.

Apartment House, Grange and Virginia road, Philadelphia. Owners taking sub-bids. Architects, Stettler & Deysher, 709 Chestnut street, Philadelphia. Owners, Friedman & Friedman, 6746 Old York Road, Philadelphia. Brick, steel, caststone, 4 stories, 55 suites,

slag roof, hardwood floors, vapor heat, electric light, tile work, refrigeration, incinerators.

Apartment Houses (2), \$120,000, North side Church Lane, west of Crowson street, Philadelphia. Permit issued. Architect, J. Frank Clark, 812 Crozier Building, Philadelphia. Owners, Church Lane Realty Company, 812 Crozier Building, Philadelphia. Brick, 3 stories, 34x38 feet, 30x180 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (32), East side Charles street, north of Devereaux street, \$122,300. Permit issued. Architect, private plans. Owners, Kuhn & Lowery, 5th and Rockland streets, Philadelphia. Brick, 2 stories, 16x30 feet, 12x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residence and Store (add.), \$3,000, 418 South 10th street, Philadelphia. Permit issued. Owners, Brill Brothers, 1004 Pine street, Philadelphia. Brick, 3 stories, addition, 19x14 feet.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building, 1614 Summer street, Philadelphia. Contract awarded Harry Walters, 412 North Fortieth street, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, name withheld. Brick, steel, 2 stories and basement, 110x28 feet, demolition, excavation, iron work, area gratings, slag roof, carpentry and mill work, metal lath, plastering, plumbing, wrought iron pipe, steam heat, boiler (Hart & Knause), electric work.

Swimming Pool and Locker House, Torresdale, Philadelphia. Contract awarded A. H. Winters, taking sub-bids due as soon as possible. A. M. Winters, 1524 Chestnut street, Philadelphia. Architect, private plans. Owner, name withheld. Brick, 1 story locker house, 600 capacity, reinforced concrete swimming pool, slag roof, cement floors, filters, plumbing.

Theatre (alts.), 729 Christian street, Philadelphia. Contract awarded A. H. Winters, 1524 Chestnut street, Philadelphia, who will be ready for sub-bids in a week. Architect, private plans. Owner, name withheld. Brick work, plastering, painting, decorating, cement work, electric work, steam heating, ventilating, kalamein doors, carpentry and mill work.

Office and Garage (alts.), Northeast Corner Thirty-fifth and Allegheny avenue, Philadelphia. Contract awarded H. H. Conway, 5800 Walnut street, Philadelphia. Architect, private plans. Owners, Wawa Dairy Farms, H. M. Stewart, 22 South Thirty-second street, Philadelphia. General interior alterations.

Tunnel Connections, Twenty-first and Girard avenue, Philadelphia. Engineers, Day & Zimmerman (Mr. Stanbery), 1601 Arch street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Contract awarded J. Joseph McHugh, 1617 Race street, Philadelphia. Brick, reinforced concrete, stone, 7x7 feet, paving, grading, cement floors, hollow tile, dampproofing, ornamental iron work.

Bank Building (alts.), 223-25 Market street, Philadelphia. Contract awarded Franklin M. Harris, 1520 Parrish street, Philadelphia. Architects, Simon & Simon, Fidelity-Philadelphia Building, Philadelphia. Owners, First National State Bank of Camden, N. J., F. M. Archer, president, Second and Market streets, Camden, N. J.

Apartment House. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, William Frehofer, Land Title Building, Philadelphia. Location: South side Conlyn street,

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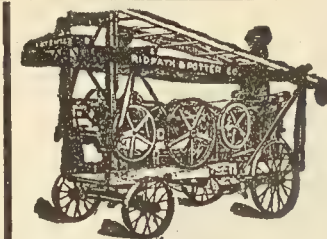
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West of York road, Philadelphia. Contract awarded Philip Haibach Contracting Co., 1261 North Twenty-sixth street. Brick, steel, 4 stories, 155x98 feet, slag roof, hardwood floors, elevators, vapor heat, electric light, tile work.

Shipping Platform, \$5,000. West side York avenue, North of Willow street, Philadelphia. Contract awarded Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia. Architect, private plans. Owner, Walter P. Miller, 441 York avenue, Philadelphia.

Receiving House, \$3,000. Penrose Ferry road, East of Schuylkill River, Philadelphia. Contract awarded E. B. Badger Sons & Co., care of Gulf Refining Co., P. O. Box 1567, Philadelphia. Architect, private plans. Owners, Gulf Refining Co., P. O. Box 1567, Philadelphia. Brick, 1 story, 36x20 feet.

Commercial Building, \$16,500. 1007-09 Vine street, Philadelphia. Contract awarded I. Manin, 5226 Berks street, Philadelphia. Architect, private plans. Owners, Estate of D. M. Hen, 904 Walnut street, Philadelphia. Brick, 2 stories, 40x131 feet, steam heat, electric lighting.

Residence (add. and alts.), 423 Pine street, Philadelphia, \$9,950. Contract awarded I. Manin, 5226 Berks street, Philadelphia. Architect, private plans. Owner, Jacob Rosen, 1006 South Fifth street, Philadelphia. Brick, 2 stories add., 12x14 feet, general alterations.

Garage, \$2,700. 3308-10 Amber street, Philadelphia. Contract awarded E. J. Gilbert, 3345 D street, Philadelphia. Architect, private plans. Owner, Conrad Hirschman, 3301 Rohrer street, Philadelphia. Brick, 1 story, 32x36 feet, slag roof, cement floors, electric work.

Shed, \$5,000. Northeast Corner Hunting Park avenue and Stokley street, Philadelphia. Contract awarded Wark Co., 1600 Walnut street, Philadelphia. Owners, E. G. Budd Co., on premises. Steel, 1 story, 15x154 feet.

Boiler Foundations, \$10,000. 432 Fairmount avenue, Philadelphia. Contract awarded A. B. MacGregor & Sons, 1628 Vine street, Philadelphia. Owners, Henry K. Wampole Co., on premises.

Store and Residence (alts.), \$2,000. Contract awarded H. Wiggins, 264 Windemire avenue, Philadelphia. Location of job: Northeast Corner Fifty-sixth and Baltimore avenue, Philadelphia. Owners, Media Drug Co., Sixty-third and Chestnut streets, Philadelphia. General alterations.

Garage, \$25,000. Northeast Corner Greene and Johnson streets, Philadelphia. Contract awarded J. Fine & Co., Inc., 4018 Brown street, Philadelphia. Architect, J. L. Barnett, 535 Chestnut street, Philadelphia. Owners, Greene Manor Apartment Corporation, 6019 Market street, Philadelphia. Brick, concrete, 1 story, 49x155 feet, slag roof, cement floors.

Gas Station, \$3,000. Northeast Corner Twelfth and Porter streets, Philadelphia. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia. Owner, D. B. McKimmie, 1518 Walnut street, Philadelphia. Brick, 1 story, 16x17 feet, slag roof, cement floors.

Residence, 411 Chandler street, Fox Chase, Philadelphia, \$12,000. Contract awarded Fesmire Bros., Huntingdon Valley, Pa. Architect, Christian H. Fries, Frankford and Oxford Avenues, Philadelphia. Owner, J. Howard Fries, 412 Rhawn street, Philadelphia. Brick, stucco, 2½ stories, 27x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Warehouse, \$5,000, 1418-20-22 South 7th street, Philadelphia. Contract awarded to S. Singer, 615 West Moyamensing avenue, Philadelphia. Owners, Tree Street Lumber Co., 627 Tree street, Philadelphia. Brick, 1 story, 63x44 feet.

Residence and Garage, Mermaid Lane, Philadelphia. Contract awarded Samuel Harting & Son, 20 East Johnson St. Architect, John W. Keyes, Otis Building, Philadelphia. Owner, Wm. B. Christy, 7020 Germantown avenue, Philadelphia. Brick, 2½ stories and basement, 70x25 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work.

Miscellaneous Work, Philadelphia. Contracts awarded. Owner, Bureau of Highways, Department of Public Works, Philadelphia. Magdalena, Walnut Lane to east of Rector, Marino Masse, 3936 North Reese street, Philadelphia, \$554. Merrick, Pensdale to north of Shurs Lane, M. Leewright, 424 Seville street, Philadelphia, \$520.78. Hire of Motor Trucks for hauling asphalt, etc., Elwood Garkick, Sr., 2948 East Vanango street, Philadelphia, \$57,300. Furnish and deliver fast hardening Portland cement, McCool Const. Co., 5033 Duffield street, Philadelphia, \$11,900. Furnish and erect steel smoke sheathing, 5th Street Bridge, Keystone Boilr Works, 4640 Umbria street, Philadelphia, \$4,538.

Pennsylvania Construction News

Residence and Garage, Panther road, East of Washington lane, Rydal, Pa. Work contemplated. Architect not selected. Owner, John R. Roberts, care of C. E. Johnson Co., Tenth and Lombard streets, Philadelphia. Stone, 2½ stories.

Dormitory Building, Easton, Pa. Preliminary plans in progress. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Lafayette University, Easton, Pa. Brick, limestone, steel, concrete work.

Church (alts. and add.), Leacock, Lancaster County, Pa. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Zion Lutheran Church, care of architect. Brick, 2 stories and basement, vapor heat, general alterations.

Office Building, Third and Pine streets, Harrisburg, Pa. Plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner and builder, Ray S. Shoemaker, 2108 Walnut street, Harrisburg, Pa. 16 stories, fireproof, 30x80 feet.

School, Northampton, Pa. Preliminary plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Northampton School Board, E. O. Reyer, secretary, Northampton, Pa. Brick, 2 rooms.

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Fire House and Municipal Building, East Lansdowne, Pa. Plans in progress. Architect, R. W. Champion, Beverly Hills, Upper Darby, Delaware County, Pa. Owners, Borough of East Lansdowne, F. C. Griggs, president, Upper Darby, Delaware County, Pa. Brick.

Residence and Garage, Hamilton road, near Merion, Lower Merion Township, Pa. Work contemplated. Architect not selected. Owner, C. E. Ebert, care of Philadelphia Rapid Transit Co., Mitten Building, Philadelphia. Details undecided.

Hospital Wing, West Chester, Pa. Plans in progress. Architect, E. William Martin, Dupont Building, Wilmington, Del. Owners, Chester County Hospital, care of architect. Steel, stucco, brick, 3 stories and basement, 35x140 feet, tile roof, concrete and terrazzo floors, hollow tile, heating extension, electric light, metal lath, tile and marble work.

Office Building, \$35,000. Plymouth, Pa. Plans in progress. Owners, Bell Telephone Company of Pennsylvania, 210 Pine street, Harrisburg, Pa.

Residence and Garage, Barrowdale road, East of Washington lane, Rydal, Pa. Plans in progress. Architect, Samuel W. Marshall, Weightman Building, Philadelphia. Owner, John K. Hoyle, 1324 Walnut street, Philadelphia. Lot, 150x190 feet.

Hotel (Harrisburger), \$600,000. Third and Locust streets, Harrisburg, Pa. Architects, associate, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa., and G. P. Post & Sons, 101 Park avenue, New York. Owners, The Harrisburger, E. J. Hoekenbury, president, 200 North Third street, Harrisburg, Pa. Fireproof, 24 stories, 380 rooms. Plans in progress.

Hotel and Garage, Fourth and Walnut streets, Harrisburg, Pa. Work contemplated. Owner, W. S. Adams, on premises. Hotel to contain 340 rooms. Garage, 200 cars.

Hotel, Fourth and Market streets, Harrisburg, Pa. Work contemplated. Owner, Peter Magaro, Fourth and Market streets, Harrisburg, Pa. Fireproof, 22 stories.

Consolidated High School, New Hope, Bucks County, Pa. Preliminary plans in progress. Architects, Franklin & Conner, 17 West Main street, Lansdale, Pa. Owners, Consolidated School Districts of Soleburg Township and New Hope Borough, J. H. Large, president, New Hope, Pa. Brick, 12 class rooms and auditorium.

Residence, Hill road, Reading, Pa. Owner is ready for bids. Architect, Israel Demchick, 1701 Chestnut street, Philadelphia. Owner, Bernard Resnick, 940 Penn street,

Reading, Pa. Brick, hollow tile, stone, 2½ stories, 39x28 feet, slate roof, hardwood floors, hot water heat, tile work.

Residence, York, Pa. Architect ready for bids due April 15th. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owner, W. Read, 273 West Springettsbury avenue, York, Pa. Stone, 2½ stories, 36x90 feet, shingle roof, linoleum floors, vapor heat, oil burner, electric light, tile work, incinerator.

Residence (alts. and add.), Remington road, Overbrook, Pa. Architect taking bids due April 8th. Architect, Louis Adams, Radnor, Delaware County, Pa. Owner, J. William Hardt, care of Philadelphia National Bank, 1416 Chestnut street, Philadelphia. Stone, 2½ stories and basement, 21x26 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, ornamental iron work.

Residence and Garage, Mount Holyoke Place, Swarthmore, Pa. Architect taking bids due April 9th. Architect, J. L. Conaroe, Mutual Trust Bldg., Philadelphia. Owner, Walter H. Dickinson, 122 West Twenty-third street, Chester, Pa. Hollow tile, stucco, 2½ stories, 39x34 feet, shingle roof, hot air heat, electric light, tile and marble work.

Dormitory, Reading, Pa. Architects taking bids due April 6th. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Albright College, care of architects. Brick, steel, fireproof, 3 stories and basement, 117x70 feet, 19x24 feet, slate roof, concrete floors, hollow tile (heating, plumbing and electric separate), metal lath, tile, steel sash, gypsum block partitions. Bidders.

Church, Shoemakerville, Pa. Architect taking bids due April 25th. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, St. Luke's Union Church, R. Wolf, Shoemakerville, Pa. Stone, steel, 1 story and basement, 128x40 feet, slate roof, oak floors, vapor heat, electric light, metal lath, steel sash, bond, iron pipe, waterproofing, bronze work.

Power House, Middletown, Pa. Architect taking bids due April 8th at noon. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Odd Fellows' Home of Pennsylvania, Middletown, Pa. Brick, reinforced concrete, steel, 1 story, 45x48 feet, excavation, bond, integral waterproofing, iron work, iron stairs, steel and tin-clad doors, rolling steel doors, metal partitions, steel sash, painting, glazing, slag roof, concrete roof.

Residence (add. and alts.) to Apartment, Reading, Pa. Architect taking bids due April 29th. Architect, M. B. Dechant, 632 Wash-

ington street, Reading, Pa. Owner, L. Soncini, care of architect. Brick, 3 stories, 30x17 feet, tin roof, hardwood floors, steam heat, electric light, tile work.

Twin Residence and Garages, Manoa, Pa. Architect taking bids due April 5th. Architect, John J. Carroll, 1619 Chestnut street, Philadelphia. Owner, name withheld. Brick, frame, 2½ stories and basement, 16x39 feet each, shingle roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work.

High School (add.), \$35,000. Bridgeport, Pa. Owners taking bids due April 10th. Architects, Stackhouse & Donohoe, 266 South Fifteenth street, Philadelphia. Owners, School District of Bridgeport, Joseph Mulroy, president, Bridgeport, Pa. Brick, 2 stories and basement. Certified check or bid bond. Deposit, \$15, refunded.

Media Inn and Restaurant, Baltimore pike and Providence road, Media, Pa. Architect taking bids due April 9th. Architect, E.

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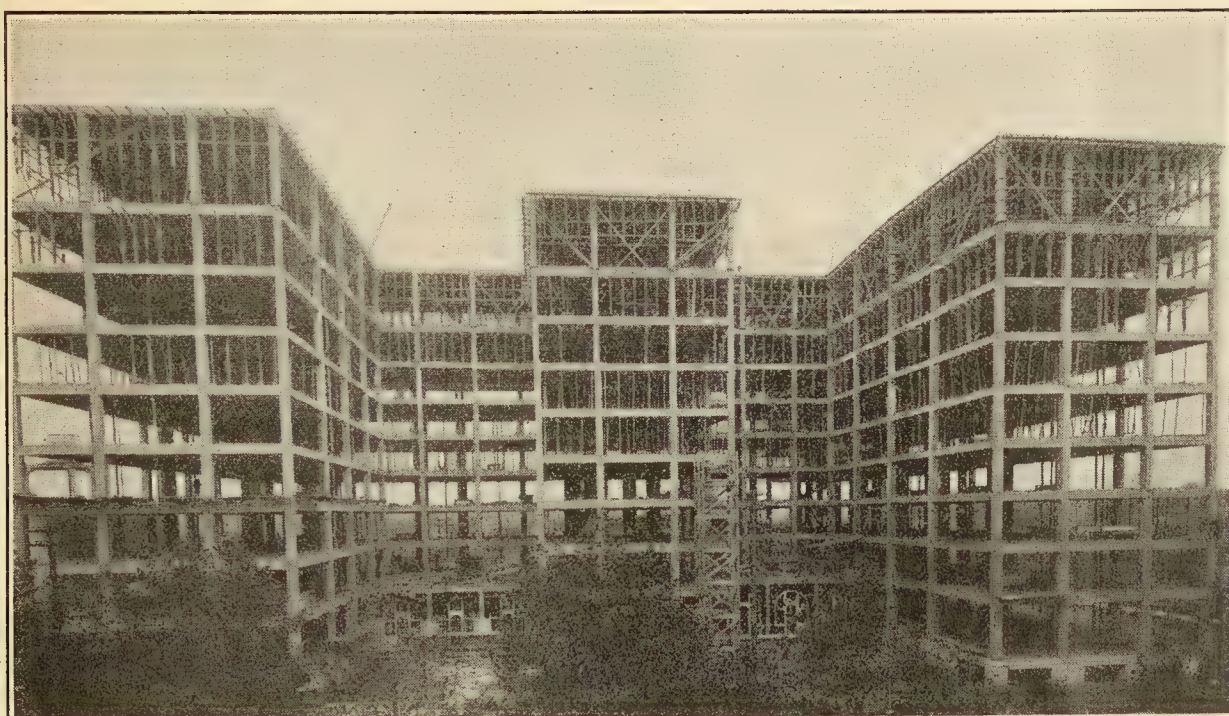
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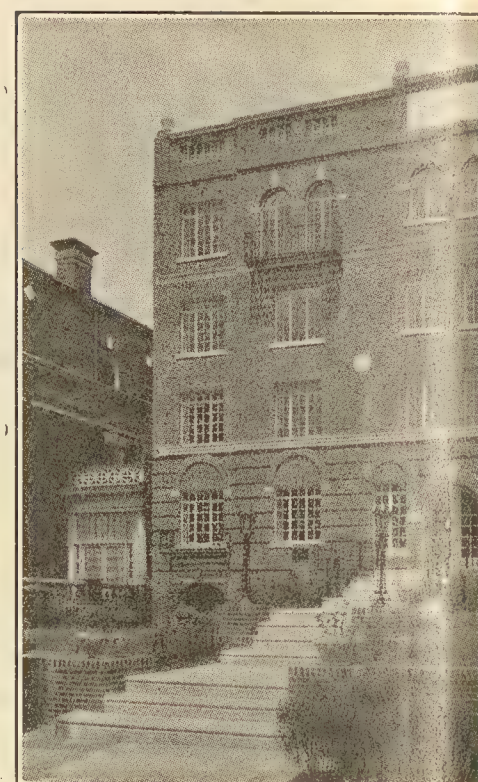
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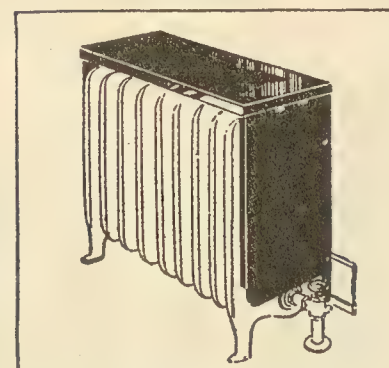
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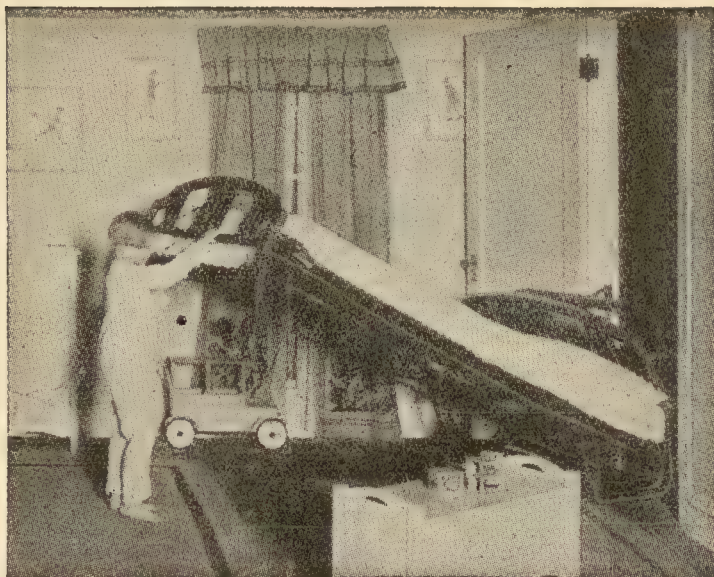
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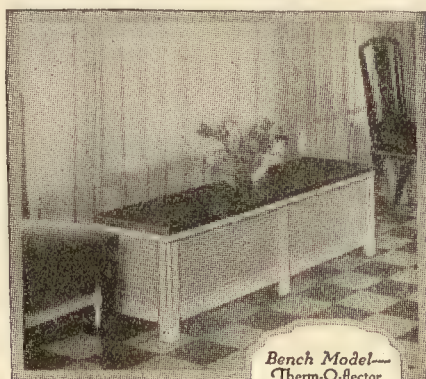
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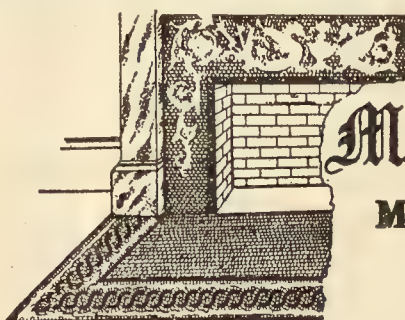
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Kenny Crothers, Media, Pa. Owner, H. J. Patton, Media, Pa. Brick, frame, stucco, 3 stories, 47x36 feet, 36x25 feet, wing 37x37 feet, excavation, brick work, casement sash (Lupton or equal), ornamental iron work, masselln steel joist (W. A. Laub), oak and pine floors, screens, dumb waiter (Lille Beauty), metal lath, plastering, plate glass, rubber tile (U. S. Rubber Co.), insulite floors, tile floors, slate roof (Peachbottom gray), electric work, plumbing, steam heat, H. B. Smith boiler.

Teachers' Training School, \$125,000. Bloomsburg, Pa. Architects taking bids due April 15th. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owners, Bloomsburg State Teachers' College, Dr. F. B. Haas, Bloomsburg, Pa. Brick, stone, 2 stories, 80x120 feet, slate and composition roof, maple floors, central heat, electric light, metal lath, tile.

Laundry Building, Bloomsburg, Pa. Architects taking bids due April 15th. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owners, Bloomsburg State Teachers' College, Dr. F. B. Haas, Bloomsburg, Pa. Brick, steel, 1 story, 85x36 feet, slag roof, concrete floors, steel sash, electric light, fire doors.

Bridge, Wrightsville to Columbia, Pa. Owners taking bids due April 9th, 12 noon. Engineer, J. B. Long, Boyer Arcade, Norristown, Pa. Owners, Lancaster County Commissioners, C. A. Passmore, president, Lancaster, Pa.; York County, W. E. Weiley, president, Court House, York, Pa. Reinforced concrete, 7,500 feet long, 44 feet wide, 28 span.

Residences (20), Prospect Park, Pa. Owner taking sub-bids due as soon as possible. Architect, private plans. Owner, Edward Ken-dig, care of J. F. Lenhart, Moore, Pa. Brick, 2 stories and basement, 16x38 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work.

Residence and Garage, Latham Park, Pa. Owner will take revised bids. Architect, private plans. Owner, George Rummel, 5634 McMahon avenue, Philadelphia. Stone, 2½ stories and basement, irregular n size, slate roof, oak and pine floors.

Warehouse, Bryansville, Pa. Architect taking sub-bids. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, E. G. Ruff, Delta, Pa. Steel, concrete, 1 story, 120x100 feet, asbestos floors, fire doors, electric light.

Church, York, Pa. Architects will be ready for bids next week. Architects, Witman & Royer, 36 East Market street, York, Pa. Owners, St. Peter's Lutheran Church, Rev. James H. Goss, 946 North George street, York, Pa. Brick, stone, steel, 1 and 2 stories, 78x103 feet, slate roof, maple floors, vapor heat, electric light, rolling curtain.

Church, Columbia, Pa. Architect will be ready for bids in two weeks. Architect, Edward Leber, Hay Building, York, Pa. Owners, Salome United Brethren Church, Rev. A. L. Haeseler, Columbia. Brick, 1 story and basement, 80x80 feet slate roof, maple floors, vapor heat, electric light.

Factory, Lancaster, Pa. Architect ready for bids. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, S. B. Lawrence Co., care of architect. Brick, steel, 3 stories, 100x150 feet, composition roof, concrete floors, roof ventilators, fire doors, steel sash, electric work.

Store and Apartment (alts. and add.), Lancaster avenue, Ardmore, Pa. Owner-builder taking sub-bids. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, Andrew Calhoun, Ardmore, Pa. Brick, limestone, 2 stories, 26x102 feet, slag roof, hardwood floors, electric light, tile work, kalamein doors, gypsum block.

Residence (alts.), \$25,000. St. Davids, Pa. Owner will build. Owner, F. M. Milward Oliver, St. Davids, Pa., and care United Gas Improvement Co., Broad and Arch streets, Philadelphia.

Store and Apartment House, \$100,000. Old York road and Spring avenue, Noble, Pa. Owner will be ready for sub-bids in a week. Architect, W. Ellis Groben, 1051 Sixty-ninth avenue, Philadelphia. Owner, Harry Hexamer Keller, Noble Vista, Pa. Brick, steel, 2 stories and basement, 200x40 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work.

Stores, Offices and Apartments (2), Lansdale, Pa. Plans in progress. Architect will sublet. Architects, Franklin & Conner, 17 West Main street, Lansdale, Pa. Owner, Samuel Fruit, 203 West Main street, Lansdale, Pa. Brick, steel, 3 stories, 50x110 feet, slag

roof, oak floors, hot water heat, electric light, tile work, kalamein doors.

Bridges (3), Meadow Creek, East of Tuckerton, Pa.; Swamp Creek, near Finland, Pa.; Cook's Creek, near Pleasant Valley, Pa. Project approved. Owners, Bucks County Commissioners, Bristol, Pa.

Bridges, Plymouth Creek, near Mill Road Station, Montgomery County, Pa. Project approved. Architect, private plans. Owners, Reading Company, Twelfth and Market streets, Philadelphia.

Bridges (3). Skippack Creek, one mile from Harleysville; Rock Hill Creek, Belmont avenue, Lower Merion Township; Minster Creek, near Swamp Pike, New Hanover Township. Project approved by Pennsylvania State Board of Water and Power Resources. Owners, Commissioners of Montgomery County, Norristown, Pa.

Church, Harrisburg, Pa. Low bidder, W. E. Bushey, Lemoyne, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Olivet Presbyterian Church, Rev. S. A. Bower, 1926 Bellevue Road, Harrisburg, Pa. Stone or brick, structural steel, 2½ stories, 102x88 feet, yellow pine floors, oak floors, waterproofing, cast stone, cinder block.

School, near Ephrata, Pa. Low bidder: Harry W. Fry, Martindale, Pa., \$22,038. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Ephrata Township School Board, Benjamin John, president, Ephrata, Pa. Brick, 1 story and basement, 57x83 feet, slag roof, pne floors.

Road Work, Pennsylvania. Owners taking bids due April 11th, at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, Capitol Building, Harrisburg, Pa.

Beaver County, R-243, Sec. 1 AA, Borough Township, 7,19 feet. One course reinforced concrete. Certified check, \$500.

Forest County, R-93, Sec. 4, Tionesta Borough, Tionesta Township, 11,275 feet. One course reinforced concrete. Certified check, \$2,500.

Lawrence County, R-80, Neshannock Township, 7,925 feet. One course reinforced concrete, dual type, also 1,883 feet one course reinforced concrete. Certified check, \$2,000.

Northumberland County, R-18, Sec. 7, Point Township, 8,553 feet. One course reinforced concrete, dual type; 1,400 feet one course reinforced concrete. Certified check, \$2,000.

Pike County, A-5782, Delaware Township, 6,698 feet. Bituminous surface treated macadam surface course. Certified check, \$1,500.

Schuylkill County, R-718, Ashland Borough, Butler Township, 4,916 feet. One course reinforced concrete. Certified check, \$1,500.

Viaduct, Route 276, Sec. 10, between Station 436-70 and Station 454-75, Adams and Coyle Townships, Cambria County, over Little Conemaugh River, South Fork Branch of Pennsylvania Railroad, and present Route 276. (8) Spans, (8) piers, excavation, borrow excavation, one course reinforced concrete pavement, full width construction, one course reinforced concrete pavement, half-width construction.

Construction drawings, \$2.50 per set. Cross section drawings, \$5 per set.

Road Work, Pennsylvania. Owners taking bids due April 12th, at 10 A. M.

Adams County, R-126, Strahan, Mt. Pleasant and Oxford Townships, New Oxford Borough, 23,520 feet. One course reinforced concrete. Certified check, \$3,000.

Armstrong County, R-188, A-5779, Kiskiminetas Township, 3,646 feet. One course reinforced concrete. Certified check, \$1,000.

Beaver County, R-77, Sec. 4, College Hill

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Ernest Flagg—Arch.
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The Waldorf Astoria
Henry J. Hardenbergh—
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John I. Downey—Contr.



Automobile Club of
America
Ernest Flagg—Arch.
Weber Constr. Co.—Contr.



Old Lord & Taylor Building



Packard Building
Albert Kahn—Arch.
Thomas B. Leahy—Contr.



American Bank Note
Co. Bldg.
Kirby, Pettit &
Green—Arch.
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Borough, 4,113 feet. Vitrified brick pavement on a concrete base. Certified check, \$2,000.

Chester County, R-201, Schuylkill Township, 2,573 feet. One course reinforced concrete. Certified check, \$500.

Columbia County, R-183, A-5078, Locust Township, 9,381 feet. One course reinforced concrete. Certified check, \$2,000.

Erie County, R-68, A-5923, Mill Creek and Green Townships, 10,235 feet. One course reinforced concrete. Certified check, \$2,000.

Lancaster County, R-527, A-5580, Colerain Township, 21,313 feet. Bituminous surface treated macadam surface course. Certified check, \$2,000.

Lebanon County, R-141-B, 140-E, Union Township, 26,227 feet. One course reinforced concrete. Certified check, \$3,500.

Montgomery County, R-143, Upper Merion Township, Bridgeport Borough, 16,296 feet. One course reinforced concrete. Certified check, \$2,500.

Northumberland County, R-18, Milton Borough, 1,495 feet. One course reinforced concrete. Certified check, \$500.

Potter County, R-236, A-5574, A-5380, Hebron Township, 7,529 feet. Bituminous surface treated macadam surface course, 200 feet grading and drainage. Certified check, \$1,000.

Westmoreland County, R-117, Sec. 3, Hempfield Township, South Greensburg and Southwest Greensburg Boroughs, 12,079 feet. One

course reinforced concrete. Certified check, \$2,500.

Viaduct, Allegheny County, Route 76, Sec. 4, Robinson and Moon Townships, over Montour Railroad, and Montour Run between Station 473-80.51 and Station 477-82.66. Structural steel and reinforced concrete, one 90-foot span, (6) reinforced concrete beam spans, (1) square-off span.

Construction drawings, \$2.50 per set. Cross section drawings, \$5 per set.

Residence, Latches Lane, between Merion and Montgomery avenue, Merion, Pa. Work contemplated. Owner, Louis A. Warne, 2227 North 52nd street, Philadelphia.

Residence (alts. and add.), Paoli, Pa. Architects taking bids due April 5th. Architects, Frank R. Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Owner, Jas. Gay, care of architects. Stone, 2½ stories, carpentry and millwork, plastering, general interior alterations, painting, glazing, cement and concrete work.

Store (alts. and add.), northwest corner Keswick and Glenside avenue, Glenside, Pa. Architect taking bids due April 4th. Architect, Solomon Kaplan, 10 South 18th street, Philadelphia. Owners, Moskowitz Bros., on premises. New front, plumbing, steam heat, electric light, plastering, carpentry and millwork, tile work, cement work, oak floors.

Apartment House, Montgomery and Morris avenues, Bryn Mawr, Pa. Architect taking sub-bids. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owners, Soloson & Fried, Bryn Mawr, Pa. Brick, steel, fireproof, 4 stories, 115x80 feet, slag roof, elevators, caststone, vapor heat, tile and marble work, rolled steel sash, kalamein doors, ornamental iron work.

Sanitary Sewer, Indian Creek road, Overbrook, Pa. Owners taking bids due April 10th, 8 P. M. Owners, Commissioners of Lower Merion Township, E. L. James, 75 East Lancaster avenue, Ardmore, Pa. Deposit, \$5.00, refunded. Certified check 3%. 1,300 feet 8-inch sanitary sewer.

Miscellaneous Work (grading and paving), Lower Merion Township, Pa. Owners taking bids due April 15th, 8 P. M. Owners, Commissioners of Lower Merion Township, E. L. James, 75 East Lancaster avenue, Ardmore, Pa. Reinforced concrete pavement Conshohocken State road from Conshohocken Borough line to Spring Hill road, 24 feet wide. Grading Manayunk road. Concrete paving, Wynnewood road, Lakeside road to Lancaster avenue. Pavement 25 feet wide, Wynnewood avenue, Lancaster avenue to Narberth borough line. Airdale avenue from P. R. R. to Montgomery avenue. Wendover avenue from Airdale to Montgomery.

chitects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Jacob Bressler, Fidelity-Philadelphia Trust Building, Philadelphia. Stone, brick, 2½ stories, 46x41 feet, 20x20 feet, excavation, stone work, brick work, Straub cinder block, concrete and cement floors, oak, pine, cement floors, iron work, carpentry and mill work, metal lath, plastering, slate roof, painting, glazing, electric work, plumbing, Byers or Reading wrought iron pipe, tile work, Arvon wall finish, hot water heat, radiators (American or U. S.), rubber tile floors (U. S. Rubber Co.), screens, Sanionyx works.

Residence and Garage, Manoa Hills, Delaware County, Pa. Contract awarded H. M. Shandles, 617 Pine street, Philadelphia. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Isaac E. Gealt, 1211 Chestnut street, Philadelphia. Brick, stucco, 2½ stories and basement, 34x35 feet, 20x20 feet, excavation, Straub cinder block, oak, pine and cement floors, iron work, slate roof, tile work, plaster, concrete and cement work, electric work, wrought iron pipe (Byers or Reading), rubber tile floors (U. S. Rubber Co.), Sanionyx screens, Arvon wall finish, hot water heat, radiators (American or U. S.).

Bridge, Cresmont, Pa. Contract awarded Golder Construction Co., 1600 Arch street, Philadelphia. Architect, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Railroad, Twelfth and Market streets, Philadelphia. Reinforced concrete work.

Stores (2) (alts.), Bryn Mawr, Pa. Contract awarded Powell Construction Co., Ardmore, Pa., who are taking sub-bids. Architect, private plans. Owner, Moses Shahade, Bryn Mawr, Pa. New store fronts, metal lath, electric work, plate glass.

Club House and Apartment, Jeffersonville, Pa. Contract awarded F. B. White, Jeffersonville, Pa. Architect, Charles Jarrett, Jeffersonville, Pa. Owners, Women's Club of West Norriton, Mrs. Martin, Jeffersonville, Pa. Stone, 2 stories and basement, 34x70 feet, slate roof, pine and maple floors, vapor heat, electric light.

Residences (2), Brookline, Penfield, Delaware County, Pa. Contract awarded William J. Gibson, Oakmont, Delaware County, Pa. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, J. Elmer Watts, Oakmont, Delaware County, Pa. Stone, cinder block, stucco, 2½ stories, 25x35 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Mill Building, \$50,000, Columbia, Pa. Architect, S. Bryan Baylinson, 1500 Chestnut street, Philadelphia. Owners, Marietta Silk Mills Co., Columbia, Pa. Contract awarded William Linker Co., 735 Cherry street, Philadelphia. Brick, steel, 2 stories and basement, 82x130 feet (plumbing, heating, electric, sprinklers, dumb waiters reserved), slag roof, concrete floors.

School, Stony Creek, Pa. Contracts awarded. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Lower Alsace Township School Board, H. Rothermel, president, Stony Creek, Pa. Brick, steel, 2 stories and basement, 87x53 feet, 9x2 feet, slag roof, maple floors, safety treads, waterproofing. General contractor, C. S. Painter, Birdsboro, Pa. Plumbing and heating, W. A. Heckman & Sons, 16 North Third street, Reading, Pa. Electric, G. H. Calm Co., 2250 Perkiomen avenue, Mt. Penn, Pa.

School, Pennside, Pa. Contracts awarded. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Lower Alsace Township School Board, H. Rothermel, presi-

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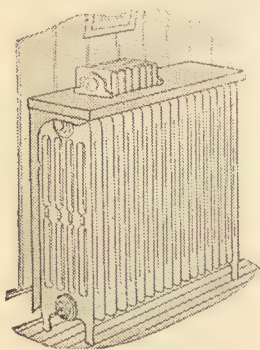
2125 Race St., Phila.

Bell, Rittenhouse 4603 Keystone, Race 6062

Pennsylvania

Contracts Awarded

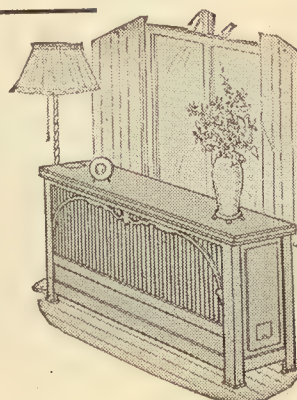
Residence and Garage, Manor Hills, Delaware County, Pa. Contract awarded H. M. Shandles, 617 Pine street, Philadelphia. Ar-



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dent, Stony Creek, Pa. Brick. General contractor, C. S. Painter, Birdsboro, Pa. Electric, Keystone Eng. Co., 335 Walnut street, Reading, Pa. Plumbing and heating, W. A. Heckman & Sons, 16 North Third street, Reading, Pa.

School and Auditorium, Palmerton, Pa. Contract awarded Tamaqua Construction Co., Tamaqua, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, Sacred Heart Parish, care of Rev. J. F. Vlosak, 243 Lafayette St., Palmerton, Pa. Brick, steel, 2 stories, 90x55 feet, composition roof, pine floors, hollow tile, roof ventilators, bond, kalamein doors, steel sash.

Porch Enclosure (alts.), Meadowbrook, Pa. Contract awarded H. H. Wehmeyer, 509 West Cumberland street, Philadelphia. Architect, Edgar Wightman, Bankers' Trust Building, Philadelphia. Owner, Elliott H. Glenn, on premises. Carpentry and mill work, painting and glazing.

Club House (add.), \$18,000. Sandy Hill road, Norristown, Pa. Contract awarded Raymond Houghton, 740 Noble street, Norristown, Pa. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owners, Plymouth Country Club, care of A. T. Eastwick, Norristown, Pa. Stone, 3 stories, add., 122x45 feet (plumbing, heating, tile work reserved), slate roof, oak, pine and cement floors, electric light, metal lath, bond, ornamental iron work.

Bank, Lewistown, Pa. Contract awarded W. C. Steinbach's Sons, Lewistown, Pa. Architects, Witman & Royer, 36 East Market street, York, Pa. Owners, Mifflin County National Bank, W. P. Wood, secretary, Lewistown, Pa. Brick, concrete, steel, 2 stories and basement, 35x30 feet, composition roof, linoleum floors, hollow tile, electric work, metal lath, tile, marble.

Restaurant and Inn (alts. and add.). Architect, H. R. Lenker, 25 North Duke street, Lancaster, Pa. Owner, J. B. Morrison, Shippensburg, Pa. Location of job: Shippensburg, Pa. Contract awarded W. A. Zern, Shippensburg, Pa. Brick, 3 stories, 27x120 feet, built-up roof, quarry tile floors, dumb waiters, electric work, steel sash (heating reserved).

Mill Building, Temple, Pa. Contract awarded William Steele Sons Co., Fifteenth and Cherry streets, Philadelphia. Architects, William Steele & Sons Co., Fifteenth and Cherry streets, Philadelphia. Owners, Wilham-Dojam, Temple, Pa. Brick, 1 story, irregular in size, slag roof, pine and cement floors, steam heat, electric light, rolled steel sash.

Fish Hatchery Building, Reynolds Dale, Bedford County, Pa. Contract awarded F. G. Rutan, Commerce Building, Altoona, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Commissioners of Pennsylvania, N. R. Bueller, Commissioner of Fisheries, State Capitol, Harrisburg, Pa. Cement block, 1 story, 34x40 feet, slate roof, cement floors, steel doors.

Garage and Office Building, Allentown, Pa. Contract awarded Ochs Construction Co., Allentown, Pa. Owners, Standard Oil Company of Pennsylvania, Mr. Holler, Public Ledger Building, Philadelphia. Steam, 1 story, slag roof, cement floors, electric light, rolled steel sash, roof ventilators, warehouse, corrugated iron, 20x60 feet, pump house, 16x22 feet, office building, 16x18 feet, garage, 36x65 feet.

Residence and Garage, Swarthmore, Pa. Contract awarded Powell Const. Co., Ardmore, Pa., who are taking sub-bids due as soon as possible. Architect, private plans. Owner, Herbert T. Bassett, West End Trust Building, Philadelphia. Brick, 2½ stories and basement, 28x50 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath, tile work.

Residence and Garage, Panarth road, Cynwyd, Pa. Contract awarded James MacMakin, 503 south Narberth avenue, Narberth, Pa. Architect, private plans. Owner, name withheld. Stone and cinder block, 2½ stories, 38x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Market House, York road, west of Woodland avenue, Abington, Pa. Contract awarded, E. Allen Reeves, Abington, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, York Road Market House, on premises. Brick, 1 story, 150x300 feet, slate roof.

New Jersey Construction News

Bank, \$125,000. Broad and Delaware streets, Paulsboro, N. J. Preliminary plans in progress. Architects, Charles R. Peddle and Simon Wasserman, 136 South Fourth street, Philadelphia. Owners, First National Bank & Trust Co., E. T. Henry, chairman Building Committee, Paulsboro, N. J. Stone.

Bath House, Hotel and Stores and Restaurant, Southwest Corner Spencer and Boardwalk, Wildwood, N. J. Plans in progress. Owner and builder will build, taking sub-bids in about 10 days. Architect, Sherman G. Coates, 1420 Chestnut street, Philadelphia. Owner, Frank Nardy, care of Quaker City Construction Co., 6301 Chester avenue. Frame, brick veneer, concrete block, 3 stories and basement, 40x90 feet, slag roof, pine floors, electric light.

Fire House, Hamilton Township, N. J. Architects about ready for bids. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Knottingham Volunteer Fire Co., care of architect. Brick, 2 stories, 35x60 feet, slag roof, reinforced concrete and hardwood floors, steam heat, electric light, steel sash.

Residence (alts. and add.), Fisher Place, Trenton, N. J. Architect ready for bids. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, V. W. Willey, Evans street and Brunswick avenue, Trenton, N. J. Frame, 2½ stories, irregular size, hardwood floors, electric work, general interior alterations.

Administration Building, 446 Bellevue avenue, Trenton, N. J. Architects about ready for bids. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners,

Mercer Hospital, 446 Bellevue avenue, Trenton, N. J. Brick, steel, 5 stories, 50x126 feet, reinforced concrete or tile roof, hardwood and composition floors, hollow tile, elevators, safety treads, heating extension, electric light, metal lath, tile, marble, terrazzo work, steel sash, ornamental plaster.

Apartment House (24 apartments), Collingswood, N. J. Architect taking bids. Architect, W. Macy Stanton, Land Title Building, Philadelphia. Owners, Browning Road Apartments, Inc., 1115 Real Estate Trust Building, Philadelphia. Brick, steel, 4 stories, 50x125 feet, slag roof, hardwood floors, elevators, vapor heat, electric light, tile and marble work.

Residence, Pitman, N. J. Owner taking bids. Architect, Thomas Edward Ash, 2021 Chancellor street, Philadelphia. Owner, Dr. C. Howard Clarke, 61 South Broadway, Pitman, N. J. Brick, 2½ stories, 28x60 feet, asbestos roof.

Apartments and Stores (2), 2624-26 Federal street, Camden, N. J. Owner-builder taking sub-bids. Architect, Frank W. Hall, 130 South Fifteenth street, Philadelphia. Owner, Morris Gelfand, 218 South Twenty-seventh street, Camden, N. J. Brick, concrete block, stucco, 3 stories and basement, 40x138 feet, slag roof, hardwood floors, hot water heat, oil burners, electric light, tile work.

Municipal Building and Court House, Camden, N. J. Owners taking bids due April 15th, 8 P. M. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Commissioners of the City of Camden and Camden County Board of Chosen Freeholders, Court House, Camden, N. J. Granite, steel, brick, 5 stories (tower, 21 stories), 138x356 feet, deck promenade, tile roof, concrete floors, hollow tile, elevators, safety treads, roof ventilators, metal window guards, waterproofing and dampproofing, wire work, acoustical treatment, area gratings, bronze, wrought iron pipe, brass pipe, ornamental iron work, soundproofing, iron stairs, bond, kalamein doors, hollow metal doors, steel skylights, steel sash, tile, marble, terrazzo work, metal lath (heating, plumbing, electric separate). Deposit, \$150, refunded. Surety bid letter and certified check, 10 per cent.

Residence, Oldwick, N. J. Owner taking bids from local contractors. Architect, R. B. Okie, 305 South Smedley street, Philadelphia. Owner, James Cox Brady, Jr., care of Fred Huyler, Hamilton Farms, Gladstone, N. J. Frame and stone, 2½ stories, 30x25 feet,

THOS. J. MALIA METAL WEATHER STRIPS PORCH ENCLOSURES WOOD, BRONZE AND ROLLING SCREENS CAULKING

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20x40 feet, slate, shingle roof, hardwood floors, vapor heat, electric light.

Road Work, New Jersey. Low bidders. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Route 44, Section 5, Gibbstown to Bridgeport, Gloucester County, F. L. Grant Co., West Chester, Pa., \$277,720.90.

Route 10, Section A, Contract 22, from Charlotte avenue to Hackensack River, Jersey City, Hudson County, Middlesex Housing Co., Metuchen, N. J., \$423,105.

Route 29, Sec. 6, Mt. Airy to amberville, Hunderdon County, Hyde-McFarlin Construction Co., Madison, N. J., \$239,765.80.

New Jersey Contracts Awarded

Sewage Disposal Plant, Barrington, N. J. Contract awarded. Engineers, Remington & Vosbury, 509 Cooper street, Camden, N. J. Owners, Borough of Barrington, Borough Hall, Barrington, N. J. Brick, steel, concrete. Plant awarded to Eugene Verga, 32nd and Farragut avenue, Camden, N. J. Sewers awarded to Albert Ellis, Moorestown, N. J.

Theatre and Stores (4), \$300,000. Twelfth and Boardwalk, Ocean City, N. J. Contract awarded Cramp & Co., Denckla Building, Philadelphia. Architects, Ritter & Shay, Packard Building, Philadelphia. Owner, C. H. Schermerhorn, 3815 Chestnut street, Philadelphia. Reinforced concrete, steel trusses, 1 story, 181x95 feet, slag roof, cement floors, electric light, rolled steel sash, ornamental iron work, cement floors, sprinklers, mechanical ventilation, copper bulks, architectural terra cotta. (Note architect.)

Residence, Trenton, N. J. Contract awarded William Akers, 247 Hollywood Drive, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, Joseph Lavine, care of architect. Brick, 2½ stories, 29x36 feet, slate roof, hardwood floors, hot water heat, electric light, oil burners, tile work, wood casement.

Residences (27), \$3,000 each. 114 to 166 Eutaw avenue, Camden, N. J. Contract awarded Edward B. Carey, 532 Trenton avenue, Camden, N. J. Architect, private plans. Owners, Lorigan-Hurley Co., Camden, N. J. Brick, 2 stories, 14x42 feet, slag roof, hot air heat, electric work.

Church, East Orange, N. J. Contract awarded E. M. Waldron, Inc., 40 Park Place, Newark, N. J. Architects, Maginnis & Walsh, Statler Building, Boston, Mass. Owners,

Church of the Holy Name of Jesus, East Orange, N. J. Limestone, steel, 1½ stories and basement, 170x100 feet, steel, slate roof, cement and maple floors, metal lath, tile, marble, terrazzo, steel sash, bond, ornamental iron.

Sewage Treatment Plant (alts. and add.), Audubon, N. J. Contract awarded Fabio Matazzo, 1287 Kaighn avenue, Camden, N. J. Engineer, Marshall M. Hammon, Audubon, N. J. Owners, Board of Commissioners, Borough of Audubon, H. K. Lawrence, Borough Clerk, Audubon, N. J.

Residences (2), \$8,600. 1265-67 Jackson street, Camden, N. J. Contract awarded Steve Wasilewski, 1305 Eldridge avenue, West Collingswood, N. J. Architect, private plans. Owners, Mrs. Elizabeth Blake, care of builder. Brick, 2 stories, 16x39 feet and 16x36 feet, slag roof, hot water heat, electric light.

Building, \$4,000. Rear of 203 Chestnut street, Camden, N. J. Contract awarded H. B. Hastings, 1306 Atlantic avenue, Camden, N. J. Owner, Mrs. William H. McCormick, 203 Chestnut street, Camden, N. J. Block and brick, 1 story, 41x64 feet, slag roof.

Alterations and Addition, \$7,200. 203 North Sixth street, Camden, N. J. Contract awarded John C. Gibson, 521 Cooper street, Camden, N. J. Owner, Frank Toppen, care of builder. Brick, 2 stories add., 18x52 feet, slag roof, hot water heating.

Miscellaneous Construction News

Residence (alts. and add.), Weldin avenue, Wilmington, Del. Plans in progress. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, F. C. Zeisberg, care of architect. Frame, stucco, 2½ stories, irregular size, shingle roof, hardwood floors, tile work.

Residence, Brookville, Long Island, N. Y. Revised plans in progress. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, James B. Clews, 9 Broadway, New York.

Residences (2), 1100 block, South Broome street, Wilmington, Del. Owners ready for sub-bids. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owners, Liberty Housing Co., 205 West Fourth street, Wilmington, Del. Brick, 2 stories, 20x30 feet, oak floors, tile work, built-up roof, felt and asphalt roofs, tin roofs, hot water heat, slate and asbestos colored shingles.

Apartments (2) and Store (alts. and add.), Southeast Corner Fourth and Scott streets, Wilmington, Del. Owner will build and will take sub-bids. Plans in progress. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, D. V. Lone, 812 Union street, Wilmington, Del. Rear add., 1 story, 20x40 feet, pine floors, hot water heat, built-up roof. \$5,000.

Department of Commerce Building, Washington, D. C. Low bidders. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Low bidders: Consolidated Engineering Co., 20 East Franklin street, Baltimore, Md.; Mellon-Stuart Co., Pittsburgh, Pa.

Miscellaneous Contracts Awarded

Club (add.), Wilmington, Del. Contract awarded Van Sant Brothers, 831 Tatnall street, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, DuPont Country Club, H. Crooks, Wilmington, Del. Stone, 2½ stories, slate roof, oak floors, heating extension, tile and marble, electric work, waterproofing.

Residence (add.), Wilmington, Del. Contract awarded W. D. Haddock & Co., 804 Orange street, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, William Corey, 2303 Willard street, Wilmington, Del. Hollow tile, 2½ stories, 25x50 feet, asphalt roof, oak floors, hot water heat, electric light, tile work.

Collins B. Rogers, Builder, announces the removal of his offices to 501 Cooper street, Camden, N. J.

TAKING EMBARRASSMENT OUT OF THE HOME

By R. E. HOWARD, A. B.

*Secretary Colgate Psychological
Laboratory*

Perhaps the house does not now exist which at some time or other has not caused the housewife embarrassment. This may not happen very often or be of any great strength, but the fact is that it has for some reason been embarrassing to live in that particular house.

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We often hear house owners say that they will never again buy a house already built but will have one constructed which will include this or that feature and will also omit some features of their present dwelling. With this in mind let us look at some of the embarrassing features found in the average modern house.

Not long ago a lady in a rather large town was expecting some visitors from another city. The house had been described, as is often the case, by merely giving the street and number. The hour for the arrival came, but the visitors, who were coming over in a private automobile, did not appear. Soon one of the members of the family saw a car moving slowly up the street. At the end of the block it turned and slowly came back. This process was repeated several times until finally the car came to a halt in front of a neighbor's house and one of the party alighted and went into the house. In a few minutes he returned to the car and gave the driver some directions. The car then started up, and drew up to the curb in front of the correct house.

The lady of the house learned upon receiving the guests that some twenty minutes had been lost in finding the house. She was surprised until she remembered that the house numerals were on the front door, hidden in the shadow of the deep porch, instead of on the column where they could be seen from the street. Her embarrassment was great, and the next day the numerals were changed.

In some cities the house numerals must be placed on the column nearest to the steps and to the right of them. Such a system makes addresses easy to find because one gets a habit of looking for them in a certain position. Much wasted time is saved by this means.

In your home, is the stairway to

the second floor accessible without passing through rooms on the first floor? The man of the house who has a hobby of a garden does not wish to pass through a living room where his wife is entertaining her bridge guests in order to reach his room and dress for dinner. The guests may know that the garden is his hobby, but they are not at ease if he must rush through the room in which they are seated in order to reach the stairway. The type of home which has the combined reception hall and living room with the stairway rising from it is more prone to cause embarrassment than any other.

The movement on hand for the elimination of the dining room seems to be loaded down with possibilities for embarrassment. This new plan makes the dining place an alcove connected with the living room. Here, unless care is taken in planning, the casual visitor who comes to the house on business at meal time—and the number who do this is by no means small—will have to sit in the living room section and watch the progress of the meal at the other end of the room. This is embarrassing for both parties.

If the person to be seen decides to interrupt his meal and interview the caller, unless the dining room is in some way secluded, he will have to allow every one dining to listen to his conversation. This state of affairs is not pleasant. Unless the house with the dining alcove has a hallway or vestibule in which persons can talk, the situation is nearly hopeless.

Houses in the cities are often too close to the street for the elimination of embarrassment by natural means. The person walking along some of our city streets can easily see all that is happening in the front rooms of the first floor. If the house is in this location, the use of cur-

tains of sufficient thickness to keep out these interested but unwelcome eyes is the best solution.

The same house, or even the house which sets back from the street, is subject to embarrassment from silhouettes formed on the window curtains. Two methods may be used to overcome this. The most common method seems to be the installation of double curtains at all windows or else the use of shades which are dark on the outside and white on the inside. The formation of shadows is then lessened, as the outsider cannot see them. The other and less common method is to place your wall lights so that they cast shadows into the room and not against the shades. Lights placed against the wall and near the window frames will throw the shadows into the centre of the room. Another method, practically never seen in homes, is the use of indirect lights which cast no shadows at all. In the home already constructed the opaque shade is the cheapest solution.

Not long ago a young man in New Jersey built a rather attractive house on a small lot between two dwellings. The house looked very well on the blueprints but the owner was very much embarrassed when he found after the house was up that it had been placed so that the neighbors on either side could look from their windows directly through his living room. The windows in living room and hallway were opposite each other and these corresponded with the neighbors' windows. The two front rooms were separated by an archway, and thus the clear vision through the new house. A slight bit of forethought in connection with the placing of the house upon the site would have saved much embarrassment later. Houses which are similar and in rows are often troubled in this manner, the windows being placed so that one

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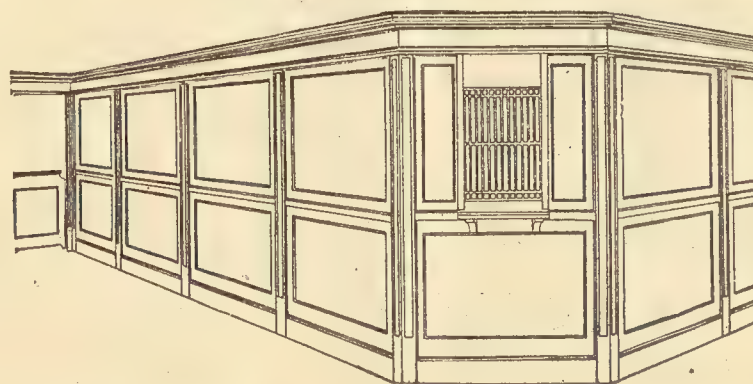
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can look through the entire row and see the sunlight beyond.

Often in traveling through cities one sees houses which seem to have outgrown their sites. Such was the case with the Jones house. The lot was very narrow but the wife had wanted a wide house. They have a wide house but have never been free from embarrassing situations since. The first bit of trouble arose when the man called with the winter's supply of coal. The side of the house was too close to the neighbor's hedge to allow a chute to be placed in the cellar window. The coal had to be taken around to the rear and then through the cellar to the storage place.

The next bit of unpleasantness came when the owner purchased a new car and found that there was not room enough on either side of the house for a drive. The rear of the house had plenty of room for a fine garage but it was not accessible.

For the family which has a car, it is embarrassing to have no place to stop in bad weather and allow passengers to alight, without being exposed to the elements. A small step from the side of the porch or a side entrance will solve this problem.

Floors that squeak are always embarrassing. Even the comic artists have noticed the value of these floors in creating embarrassing situations. The house may be new and of good construction, but squeaky floors always give the impression of a cheap grade of work. No owner likes to have his visitors get the impression that his house is a cheap one, but unless the house is very old, where such floors add to the charm, the only possible idea is that the material and labor were cheap. With good floors within the reach of all builders it seems impossible that poor floors should be allowed.

Whose forethought is it that is going to prevent these home embarrassments? In many cases that of the builder. He must be able to see these things before they happen and provide against them, just as he provides against leaky roofs and other faults.

—*Building Age.*

HOW TO FINISH HARDWOOD FLOORS

Floors Properly Finished Have High Sale Value and Leave Quality Impression

By A. ASHMUN KELLY

This work differs with all other finishing in that it is to be walked upon; hence it must receive a different treatment. It demands a greater length of time for drying, unless, as is often the case, a very quick and hard-drying finish is applied.

There are finishes which may safely be walked upon without damage inside of ten to twelve hours, and even in less time than this where the very quickest finish is used. Of these we now have many that were not dreamed of some years ago.

But to begin with, time is a requisite. Every stage of the work demands time for drying in order to produce a perfect finish, both as to durability and appearance. But time is not always available. Since there are cases where the owner is over anxious to get into the new home, the work does not permit of enough time for the best results. The finishing materials, filling and succeeding coats, should each have all the time necessary to their drying out.

Even after a floor has been laid it should have some time to "work and set," as the floor-layer might say. This workman says that seven or eight days with a warm room should be allowed for this.

But how very seldom does a floor get that much time to work and set.

Then, a good floor should be covered to afford protection against injury. First-class floors get this, but hardly any others. I am writing this in a fine house whose floors are of fine select hard pine, and they have been ruined by not having been covered with boards when the plastering was done. Yet they are finished natural, but with every dark stain showing at the sides and ends. And, strangely enough, this house was built by a building contractor for his own family, who lived in it till almost the last member died.

Floors Should be Scraped and Sandpapered

A good floor will be scraped and sandpapered perfectly level and smooth. The machine used for this purpose will sandpaper with No. 1½ paper for the first cutting, finishing with No. 00 paper, which gives to the surface a sort of polish. The machine first runs across the grain, then with the grain. A few inches around the sides will be done with a hand scraper, finishing with sandpaper and block.

Then the floor will be made clean, the last sweeping being done with a broom covered with flannel slightly dampened with raw linseed oil. This will take up the fine dust left from the sweeping.

A clear grade of oak flooring should be filled with uncolored paste filler, or with a little oak color added to it. Select and sap grades should have a light golden oak filler. After the floor has been filled it should be gone over with a little burnt umber to darken any possible light streaks. Thin the umber with turpentine.

This will cause the select and sap grades to have the appearance of clear grade, excepting that they will look slightly darker. In filling No. 1 common grade a dark golden oak color should be

used, and any light streaks should be darkened as above.

After filling the floor allow it about twenty minutes to set; then rub off with burlap or tow, rubbing against the grain. Then let the work stand for twenty-four hours; then, sandpaper smooth and apply a coat of surfacer. For a surfacer some workmen use copal varnish made sufficiently thin with turpentine. Now repeat the sandpapering. For a good job apply two coats of rubbing varnish; rub the first coat to remove the gloss, then rub the second coat with powdered pumice stone and water. Now clean up, let the work become dry, after which finish as desired, varnish or wax.

Shellac is often best for a hard pine floor, as copal varnish does not wear so well or does better when used over shellac. But some workmen say that neither shellac nor copal varnish should be used, but that the wood should be stained with a dark oil stain, wiped off, and then when dry have a coat of equal parts of raw oil and turpentine which should be wiped off dry. First wipe across the grain after the dark oil stain, which should remove the stain from hard parts and place it in the softer parts; finally wipe the surface dry with a dry clean cloth. Repeat this operation till the wood will take up no more stain.

A hard pine floor treated in this manner will neither scratch nor wear off in spots, and it is easily renewed when that becomes necessary. Such a finish does not become slippery, and becomes even more attractive with age, the color darkening and mellowing.

If the floor is to be finished natural, first apply a liquid filler, pale in color, or a coat of white shellac, following this with pale copal varnish, or with wax, or two coats of white shellac.

In doing a hardwood floor you should work on the principle that few coats mean better wearing.

Open Pore Woods Need Paste Filler

A floor of any open pore wood should be filled with paste filler; do not use a liquid filler in this case. Finish with copal varnish or shellac or varnish, as may be preferred. Some finishers will give the floor two coats of shellac and call it done. Others may prefer two or more coats of a good floor varnish. But the majority of finishers will vote for the wax finish, in some cases applied over a filler, but more commonly over a thin coat of shellac, applied over the paste filler.—*Building Age and National Builder.*

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

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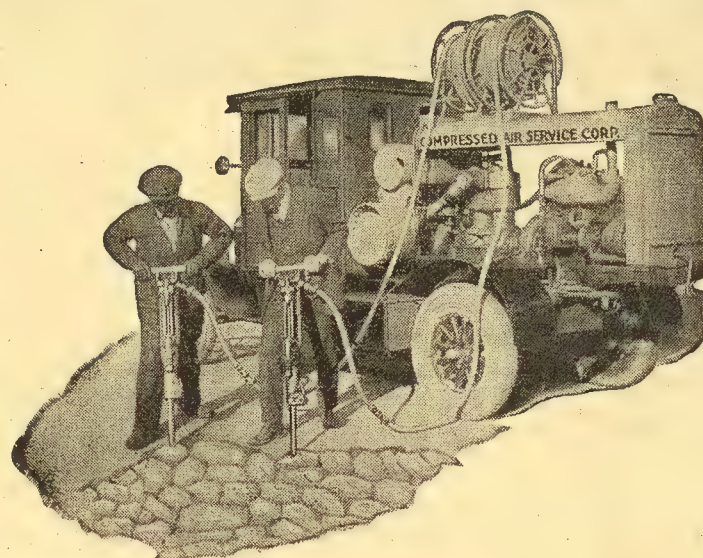
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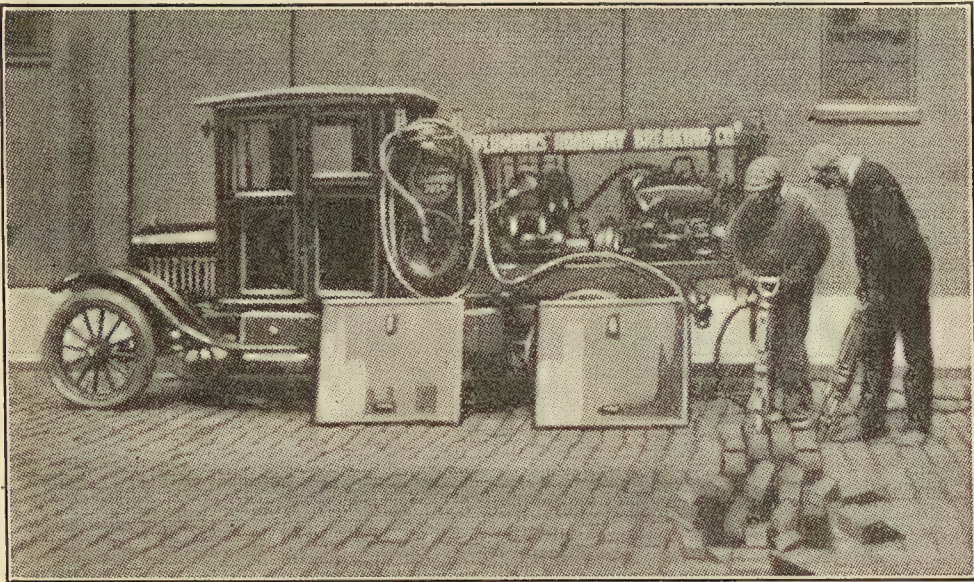
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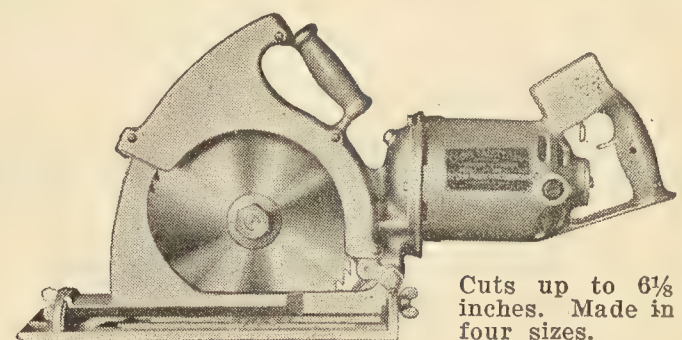
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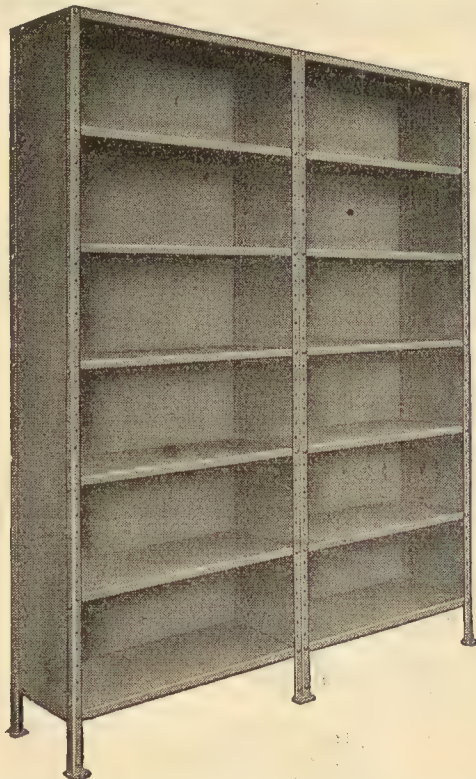
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 15

Engineering and the Building Trades

PHILADELPHIA

April 10, 1929

BUILDERS' GUIDE

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, Northeast Corner Fifty-fourth and Columbia avenue, Philadelphia. Revised plans in progress. Architect, Edward C. Haldeman, Twentieth and Estaugh streets, Philadelphia. Owners, Wynnefield Development Co., care of A. Leibovitz, North American Building, Philadelphia. Brick, steel, limestone, 4 stories, electric light, tile work, hardwood floors, kitchen equipment, laundry equipment.

Store and Apartments (2) (alts.), Old York road and Lycoming avenue, Philadelphia. Plans completed. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, name withheld. New front, copper bars, metal ceilings, hot water heat, slag roof.

Stores (alts.), 2161-63 East Cheltenham avenue, Philadelphia. Plans in progress. Architect, E. A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Charles Kahn, Southeast Corner Seventeenth and Chestnut streets, Philadelphia. Lessees, Almar Stores, Inc., Seventeenth and Ridge avenue, Philadelphia.

Stores (12), Broad and Olney streets, Philadelphia. Architect taking bids due April 13th. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Grange Development Co., care of William Greenhouse, care of architect. Brick, steel, 1 story and 2 stories, 430x60 feet, slag roof, pine and oak, cement floors, electric light, metal lath, tile work, ornamental iron work.

School and Rectory, Eighteenth and Pollock streets, Philadelphia. Architects taking bids due April 13th. Architects, Henry D.

Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Richard's Roman Catholic Church, Rev. G. P. Boyle, 1825 Pollock street. Brick, steel, 2 and 3 stories and basement.

Ninth Floor, City Hall Annex (alts.), Juniper and Filbert streets, Philadelphia. Owners taking bids due April 16th. Architect, William S. Covell (city architect), City Hall Annex, Philadelphia. Owners, Bureau of Highways, City of Philadelphia, City Hall Annex. Linoleum floors, plastering, tile and marble work, metal partitions, hollow metal doors and trim, hollow tile, hardware, painting, glazing.

Manufacturing Building, Roberts and Wayne avenues, Wayne Junction, Pa. Architects taking bids due April 18th. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Brown Instrument Co., on premises. Brick, steel, 2 stories.

Residence (alts. and add.), 1733 Pine street, Philadelphia. Agent taking bids. Owner, T. J. Foley, 1825 Cypress street, care of George B. Gay, agent, 128 South Seventeenth street, Philadelphia. Brick, 4 stories, 18x130 feet, general alterations, hardwood floors, plumbing, hot water heat, electric light, tile work.

Apartment Building, Stores (4), 139-45 East Cheltenham avenue, Philadelphia. Owner taking bids due April 20th at noon. Architect, H. Homer Jefferson, 4832 Brown street, Philadelphia. Owner, W. A. Byrd, 141 East Cheltenham avenue, Philadelphia. Stone, concrete, brick, cast stone, steel, mill work, incinerator, 4 stories, 53x68 feet, electric light, cement work.

Sunday School, Midvale avenue, East of Ridge avenue, Philadelphia. Preliminary plans in progress. Ready for bids in one week. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Falls of Schuylkill Baptist Church, Rev. W. J. Hays, 3635 Queen Lane, Philadelphia. Stone, 3 stories, slag roof, hardwood floors, electric light.

Garage, 405-15 North Fortieth street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Harry G. Walters, 412 North Fortieth street, Philadelphia, taking sub-bids due as soon as possible. Owners, Mervine Construction Co., care of architect. Brick, steel, 1 story and basement, irregular, slag roof, cement floors, steam heat, electric.

General Alterations, 1010 Chestnut street, Philadelphia. Architect, J. S. Fuller, 26 South Fifteenth street, Philadelphia. Owners, Shaw-Walker Co., on premises. Architect will build.

Apartment House, Walnut lane and Morton street, Philadelphia. Will be ready for sub-bids in a week. Architect, Durham Brothers, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Brick, steel, 4 stories, 165x135 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, steel casements.

Service Station and Loft Building, \$200,000. Bristol and Broad streets, Philadelphia. Owners will be ready for bids April 15th. Engineer, H. C. Christman, 306 South Nortedame avenue, South Bend, Ind. Owners, Benedix Brake Service Co., R. P. Henderson, 3912 North Broad street. Brick, steel, concrete, 2 stories and basement, 75x175 feet, slag roof, concrete floors, electric light.

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Squash Courts (2), Manheim and Morris streets, Philadelphia. Revised plans in progress. Will be ready for new bids in one week. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owners, Germantown Cricket Club, Manheim and Morris streets, Philadelphia.

Apartment House, City Line and Bryn Mawr avenue, Philadelphia. Architect ready for sub-bids due April 25th. Architect, Lewis J. Cohen, Real Estate Trust Building, Philadelphia. Owner, Bobco Construction Co., care of architect. Brick, steel, stone, 4 stories, 143x60 feet, 36 apartments, slag roof, hardwood floors, elevators, door beds, kitchen equipment, vapor vacuum heat, electric light, tile and marble work, metal lath, wood sash, incinerators.

Apartment House, Rochelle avenue and Vicaris street, Wissahickon, Philadelphia. Owners taking sub-bids. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owners, Rochelle Apartment Corporation, care of G. S. Garber, Fox Building, Philadelphia. Brick, steel, limestone, kitchen equipment, 4 stories, 60x140 feet, slag roof, oak and linoleum floors, elevator equipment, plumbing, ornamental iron work, incinerators, refrigeration, kalamain doors, vapor heat.

Bridges (2), Henry avenue, Philadelphia. Plans completed. Will soon take bids on bridge over railroad. Architect, Modjeski, Masters & Chase, 1420 Walnut street, Philadelphia. Owners, Department of Public Property, Bureau of Surveys, Philadelphia. Reinforced concrete.

Residences and Garages (2), Chestnut Hill, Pa. Owner will build and will take sub-bids. Architect, private plans. Owner, Judson C. Zane, Land Title Building, Philadelphia. Stone, 2½ stories, 30x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Restaurant (alts.), 1309 Walnut street, Philadelphia. Architect taking sub-bids due as soon as possible. Architect, A. C. Bieber, 1520 Locust street, Philadelphia. Owners, French & Co., care of architect. Refrigeration, metal work, electric light, metal lath, steam heat, plastering, painting, interior decoration, ventilators.

Residences (100), Plymouth and Elston streets, North side, and Eighteenth street, Philadelphia. Work contemplated. Owner will take sub-bids in June. Architect, private plans. Owner, Charles G. Erny, Broad and Airdrie streets, Philadelphia. Brick, 2 stories.

Store (alts.), Northwest Corner Fifth and Olney streets, Philadelphia. Plans in progress. Owners will soon be ready for bids.

Owners, Walgreen Drug Co., 475 Lexington avenue and 1106 Chestnut street, Philadelphia. Architect, Mr. Hitchcock, care of owner, 475 Lexington avenue, New York. General alterations, 1 story, 35x100 feet.

Laboratory Building, Twenty-ninth and Gray's Ferry road, Philadelphia. Plans in progress. Ready for bids in two weeks. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Henry Bower Chemical Manufacturing Co., on premises. Brick, steel, concrete, 2 stories, reinforced concrete roof and floors.

Residences (6), \$63,000, 3403-36 Warden Drive and 3906 Vaux street, Philadelphia. Permit issued. Architect, private plans. Owner, John H. McClatchey, Sixty-ninth and Market streets, Upper Darby, Pa. Brick, 3 stories, 20x46 feet 9 inches, 11x6 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (9), \$36,000. North side Leverington avenue, East of Silverwood street, Philadelphia. Permit issued. Architect, private plans. Owner, Joseph McGlory, 2074 North Sixty-second street, Philadelphia. Brick, 2 stories, 15 feet 6 inches x 26 feet, 11x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Locker Room, \$5,000. West side Seventy-first street, North of Elmwood avenue, Philadelphia. Permit issued. Architect, private plans. Owner, A. Leibovitz, 1202 North American street, Philadelphia. Brick, 1 story, 44x54 feet, 42x50 feet.

Residences (72), \$290,500. East side Twenty-first street, North of Seventy-third avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Gale & Witty, 7201 Ogontz avenue, Philadelphia. Brick, 2 stories, 16x44 feet, 12x13 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (41), West side Eighteenth street, South of Thorp's Lane, Philadelphia, \$166,000. Permit issued. Architect, private plans. Owner, Thomas J. Kiely, 531 West Durham street, Philadelphia. Brick, 2 stories, 16x35 feet, 12x13 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (30), \$136,000. 1901-59 Seventy-second avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Harold P. Mueller, Oak Lane Trust Building, Philadelphia. Brick, 2 stories, 15x35 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (4), \$9,600. South side Flamingo street, East of Fowler street, Philadelphia. Permit issued. Architect, private plans. Owner, Henry C. Missimer, 8012 Ridge avenue, Philadelphia. Brick, 2 stories, 22x15 feet,

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Apartment House, \$200,000. South side Locust street, East of Forty-eighth street, Philadelphia. Permit issued. Architect, Louis Cohen, Real Estate Trust Building, Philadelphia. Owners, Barnet and Joseph Rubin, 1211 Chestnut street, Philadelphia. Brick, 4 stories, 105x130 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (4), \$16,800. 6319-21-23-25 Martin's Mill road, Philadelphia. Permit issued. Architect, private plans. Owner, Christian Fischer, 6370 Oxford street, Philadelphia. Brick and stone, 2 stories, hardwood and pine floors, hot water heat, electric light.

Residence, \$6,000. Northwest Corner Devereaux and Oakley streets, Philadelphia. Permit issued. Architect, E. C. Haldeman, 3438 North Twentieth street, Philadelphia. Owner, John H. Baier, 4938 North Franklin street, Philadelphia. Brick, 2 stories, 24x56 feet, hardwood and pine floors, tile work, hot water heat, electric light.

Store, \$6,000. Northeast Corner Ripka and Ridge avenues, Philadelphia. Permit issued. Architect, private plans. Owner, Benjamin F. Calverly, 6100 Ridge avenue, Philadelphia. Brick, 1 story, 27x50 feet, electric light.

Residences (29), \$179,000. East side Morton street, North of Washington lane, Philadelphia. Permit issued. Architect, private plans. Owners, M. & R. Madway, Forty-eighth and Walnut streets, Philadelphia. Brick, 2 stories, 16x38 feet, 12x19 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (26), \$79,000. North side Sterling street, West of Walker street, Philadelphia. Permit issued. Architect, private plans. Owners, Jarrett & Mahon, Ogontz avenue and Middleton street, Philadelphia. Brick, 2 stories, 15x34 feet, 13x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (3), West side Castor road, North of Brighton street, \$23,400. Permit issued. Architect, private plans. Owner, Harry Menke, 1906 Stanwood street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Restaurant (alts.), \$5,000. 1309 Walnut street, Philadelphia. Permit issued. Architect, Alvin C. Bieber, 1520 Locust street, Philadelphia. Owners, Walsan Way Corporation, 1309 Walnut street, Philadelphia. General alterations.

Underground Pedestrian Concourse, relocation of Market Street Subway under City Hall, Philadelphia. Low bidders: Golder Construction Company, 1600 Arch street, Philadelphia, \$1,797,059. Owners, Department of City Transit, thirteenth floor, City Hall Annex. Second low bidder: Underpinning & Foundation Co., Finance Building, Philadelphia, \$1,919,045.

Miscellaneous Work, Philadelphia. Owners, Bureau of Highways, Department of Public Works, Philadelphia. Low bidders: Bleigh, Pennway, Dorcas, Shelmire, Marino Masse, 3936 North Reese street, Philadelphia, \$1,133.24. Milnor, Church to Duncan, Joseph Cicone, 5732 Westminster avenue, Philadelphia, \$379.17. Paving and repaving certain alleys, Footway Paving Co., 236 South Twenty-third street, Philadelphia, \$12,335.95. Furnish structural steel, Walnut Street Bridge, Montgomery Iron & Steel Co., 2500 Duncan street, \$18,376.60. Furnish and deliver ready mixed concrete, Charles Warner, 1518 Walnut street, Philadelphia, \$1,000. Pier Fenders, Bridge No. 9, Passyunk avenue, Harry C. Eyre, 1212 North Delaware avenue, Philadelphia, \$10,990.

Miscellaneous Sewer Work. Owners, Department of Public Works, Bureau of Engineering and Survey, Philadelphia. Low bidders: Schedule A—Bridge Street Intercepting Sewer, John D'Lauro & Andrew Fishione, 7821 Germantown avenue, \$8,350. Comly Street Intercepting Sewer, John D'Lauro & Andrew Fishione, 7821 Germantown avenue, \$8,276. Schedule B—Rising Sun avenue (grading approaches), Peerless Construction Co., Fifty-seventh and Florence avenue, \$74,462.80. Schedule C, test borings—John E. Robinson, 5231 Catherine street, Philadelphia, \$4,950.

Dept. of Supplies, T. F. Watson, 302 City Hall, taking bids due April 15th, for metallic ring packing and pump valves, lumber, structural steel stairways, induction motor, tool heaters, tractors.

Rectory (alts.), \$3,000, 3728 Chestnut street, Philadelphia. Permit issued. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owners, care of D. Cardinal Dougherty, 18th and Summer streets, Philadelphia. General alterations.

Residences (17), 2464—96 79th avenue, Philadelphia, \$76,500. Permit issued. Architect, private plans. Owner, Max Chipin, 5701 N. 17th street, Philadelphia. Brick, 2 stories, 16x30 feet, 12x22 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (2), \$10,000, East side Upsal street, South of 79th avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Max Chipin, 5701 North 17th street, Philadelphia. Brick, 2 stories, 18x16 feet, 27x15 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

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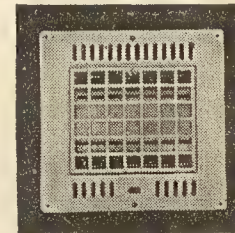
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Stores (alts.), \$2,500, 7176-78 Ogontz avenue, Philadelphia. Permit issued. Architect-private plans. Owner, Max Chipin, 5701 N. 17th street, Philadelphia. General alterations.

Dept. of Public Works, 1002 City Hall Annex. Owners taking bids due Apr. 16th. Grading, country road improvement, asphalt repaving, apply road oils, reinforced trusses and steel, painting bridges, smoke shields. Certified check, 5%.

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Philadelphia. Engineers taking bids on April 15th for portable surfacing and finishing machines, on April 16th concrete and brick handling plants, adjustable shores, etc., delivered to Gratersford, Pa.

Residence and Garages (2), Chestnut Hill, Pa. Owner will build and is taking sub-bids. Architect, private plans. Owner, Judson C. Zane, Land Title Building, Philadelphia.

Stone, 2½ stories, 30x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Bridge, Schuylkill River and Filbert street, Philadelphia. Owners taking bids due April 11th. Owners, Penna. R. R., Broad Street Station, Philadelphia. 400 feet long, 125 feet wide, waterproofing.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office Building, Sixteenth, Seventeenth, Pennsylvania Boulevard and Cuthbert streets, Philadelphia. Architects, Graham, Anderson, Probst & White, Railway Exchange, Chicago, Ill. Contract awarded James T. Stewart Co., 17 East Forty-second street, New York. Owners, Pennsylvania Railroad, 15 North Thirty-second street, Philadelphia. Brick, limestone, steel, architectural terra cotta, reinforced concrete, 2s stories and basement, 395x108 feet, cement floors, waterproofing (Minwax), asphalt paving, membrane waterproofing, hollow tile, cork insulation, granite, composition roof, roofing tile, kalamein doors (Empire Fireproof Door Co.), caulking, hollow metal doors and trim, weather stripping (Sager or equal), ornamental iron or bronze work, rolling steel shutters, iron stairs, fire doors, vault doors, hardware, carpentry and mill work, metal lath, plastering, acoustical treatment, art marble work, marble work, terrazzo work, vitrolite, painting, glazing, plumbing, wrought iron pipe, brass pipe, steam heat, electric light, ventilation, elevators.

Alterations to First Floor, Thirty-third and Arch streets, Philadelphia. Contract awarded Metzger & Co., Otis Building, Philadelphia. Owners, Estate of E. S. Wilford, Otis Building, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Bond, brick, hollow tile, plaster block partitions, ornamental terra cotta, cut stone (match present), cement and concrete work, revolving doors (Van Kannel Doors Co.), steel sash and frame (Trusecon or equal), iron and steel work, caulking (Evair Tight Caulking Co.), metal lath, plastering, dampproofing (Hydroseal, Parlock or equal), marble and terrazzo, maple floors, carpentry and mill work, wall finish (Arvon or equal), painting,

glazing (plumbing, heating, electric, sprinklers reserved).

Store Building, Sixty-ninth and Ludlow streets, Philadelphia. Contract awarded Golder Construction Co., 1600 Arch street, Philadelphia. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1424 South Penn Square, Philadelphia. Brick, steel, 1 story and basement, 181x112 feet, cement floors, bond, excavating, reinforced concrete work, cinder concrete block (Straub), tile floors (Bachelder-Wilson Co.), architectural terra cotta, dampproofing (Concrete Waterproofing Paint Co.), caulking (Ev-Air Tight Caulking Co.), composition roof (John Mansville, Carey or Barrett), kalamein doors and trim (Reliance Fireproof Co.), hardware, carpentry and mill work, oak and pine floors, metal lath, plastering, area gratings (Kerlow Steel Flooring Co.), electric work, plumbing, wrought iron pipe (Reading), steam heating, H. B. Smith boiler, radiators (American National).

Residence and Garage, West Hortter street, Germantown, Philadelphia. Contract awarded William H. Eddleman, 5550 Ridge avenue, Philadelphia. Architects, Mellor & Meigs, 205 South Juniper street, Philadelphia. Owner, A. T. Malmed, Broad and Locust streets, Philadelphia. Stone, 2½ stories and basement, irregular in size (plumbing, heating, electric reserved), bond, excavating, reinforced concrete work, cement floors, caulking, miscellaneous iron work, Trusecon steel basement window area grilles, steel casements (Henry Hope & Son or International), slate roof (Emack or Robinson), tile and marble, composition floors, linoleum, metal lath, plastering, metal weather strip (Wolfe & Adams), screens.

Bakery (add.), 1246 South Thirteenth street,

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Philadelphia. Contract awarded Curtis Co., 10 South Eighteenth street, Philadelphia. Engineer, Alfred Accetta, 917 Moore street, Philadelphia. Owners, Philadelphia Baking Co., Inc., Anthony Creats, president, on premises. Brick, steel, reinforced concrete, 2 stories and basement, 32x45 feet, slag roof, pine and cement floors, rolling steel doors, mill work, painting, glazing, sheet metal work, ornamental iron work (plumbing, heating, electric reserved).

Residence (alts.), 35 West Phil-Elena street, Philadelphia. Contract awarded J. Riley & Son, Forrest avenue, Mt. Airy. Architect, J. Linerd Conarro, 1518 Walnut street, Philadelphia. Owner, Dr. Edwin H. Delk, on premises. Cement work, demolition, electric work, excavation, glazing, hardware, metal lath, plastering, carpentry and mill work, plumbing, tile and marble work, shingle roof, alterations to heating.

Church (alts. and add.), Franklin street above Race street, Philadelphia. Contract awarded Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia (not signed). Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, Old Zion Church, on premises. Carpentry and mill work, plastering, painting, glazing, hardware, general interior alterations.

Delivery Room (add.), West side Belmont avenue, North of Girard avenue, Philadelphia. Contract awarded Sutton & Stephenson, 1317 Washington avenue, Philadelphia. Architect, C. Leslie Weir, 41 East Forty-second street, New York City. Owners, American Ice Co., City Center Building, Philadelphia. Brick, 1 story, 46x50 feet, slag roof, cement floors.

Club House (alts. and add.), 2404 Orthodox street, Philadelphia. Contract awarded John H. Rackie, 4341 Frankford avenue, Philadelphia. Architect, Steven Bureysnski, 2702 Orthodox street, Philadelphia. Owners, Polish-American Citizens' & Hatminic Club, on premises. Plumbing, steam heat, electric work, plastering, carpentry and mill work, painting, glazing, general interior alterations.

Office (alts.), York road and Butler street, Philadelphia. Contract awarded J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia. Architect, private plans. Owners, Welsh Brothers, York road and Butler street, Philadelphia. Raising floor, extension of present office, two new toilet rooms, composition or linoleum floors.

Building, 231 South Mentor street, Philadelphia. Contract awarded J. L. Fawley, 2121 Walnut street, Philadelphia. Architect, E. A. Stopper, 10 South Eighteenth street,

Philadelphia. Owners, Swiss Turn Verin, care of architect. Brick, steel, cast stone, 2 stories and basement, 40x100 feet, slag roof.

Garage, \$8,200. 620-22 South Orianna street, Philadelphia. Contract awarded D. J. Papan, Southeast Corner Thirteenth and Reed streets, Philadelphia. Architect, private plans. Owner, Ethel Bockol, 317 Bainbridge street, Philadelphia. Brick, 1 story, 49x37 feet, 37x45 feet, slag roof, cement floors, electric light.

Residence and Store (add. and alts.), \$5,500. 820-22 South Thirteenth street, Philadelphia. Contract awarded J. Bianchini, 1924 South Thirteenth street, Philadelphia. Architects, William F. Koelle & Co., 1633 Race street, Philadelphia. Owner, Jacob Hutkan, Northwest Corner Thirteenth and Christian streets, Philadelphia. Brick, 1 story add., 34x6 feet, general alterations.

Store Building (alts.), 1208-10 Chestnut street, Philadelphia. Contract awarded A. Kirpich, 3211 West Oxford street, Philadelphia. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Beck Store (shoes), care of architect. General interior alterations, new front.

Ice House, Belmont and River road, Philadelphia. Contract awarded G. L. & J. K. Callahan, 473 Oriole street, Philadelphia. Architect, Ralph Lawrence, 525 East Gates street, Philadelphia. Owners, Glen Willow Ice Co., 4517 Main street, Manayunk, Philadelphia. Concrete block, 1 story, 29x20 feet, slag roof, cement floors.

Garage, \$2,000. Northeast Corner Belgrade and Lefevre streets, Philadelphia. Architect, private plans. Owner, S. T. Romnicki, 4498 Livingston street, Philadelphia. Concrete block, 1 story, 40x36 feet, slag roof, cement floors. Contract awarded Lewis Ahlers, Rhawn and Large streets, Philadelphia.

Store and Storage (alts.), 4614 Frankford avenue, Philadelphia. Contract awarded Basch & Co., Ruan and Tackawanna streets, Philadelphia. Architect, private plans. Owner, S. J. Lyons, on premises. General alterations.

Store (alts.), \$2,000. 3611-13 Germantown avenue, Philadelphia. Contract awarded Edward J. Heinke, 505 Church lane, Elkins Park, Pa. Architect, private plans. Owner, George Steumfig, 5430 Wayne avenue, Philadelphia. General alterations.

Power House, \$700,000. East side Thirty-second street, North of Market street, Philadelphia. Contract awarded United Engineers & Constructors, 112 North Broad street, Philadelphia. Architects, Graham, Anderson,

Probst & White, Railway Exchange, Chicago, Ill. Owners, Pennsylvania Railroad Co., 15 North Thirty-second street, Philadelphia. Steel and brick, 5 stories, 94x85 feet, 100x118 feet.

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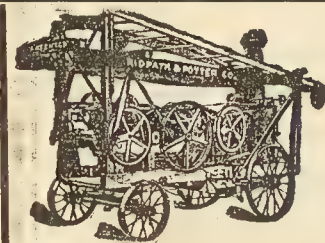
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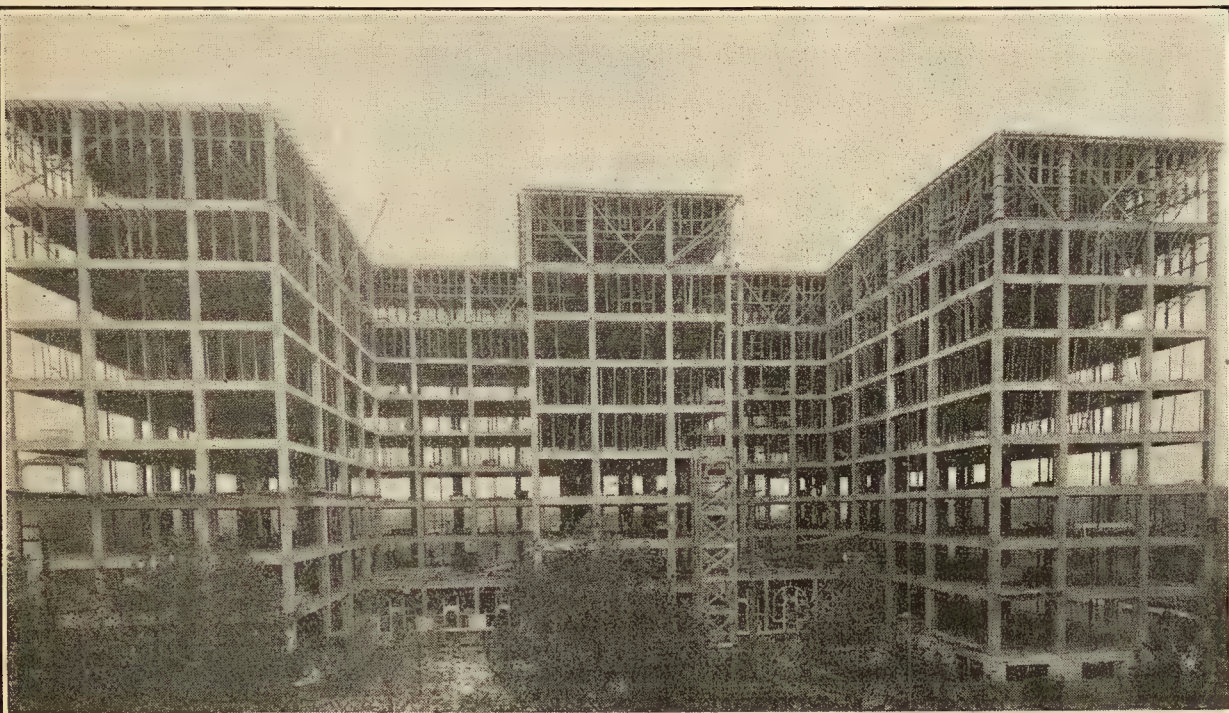
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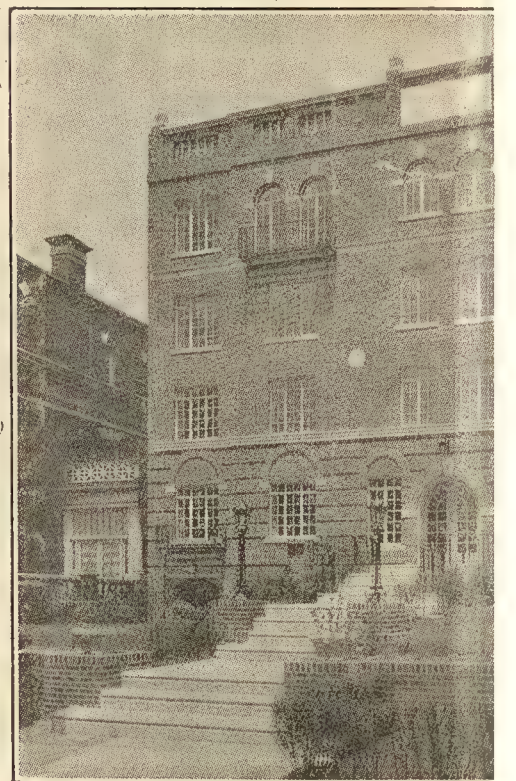
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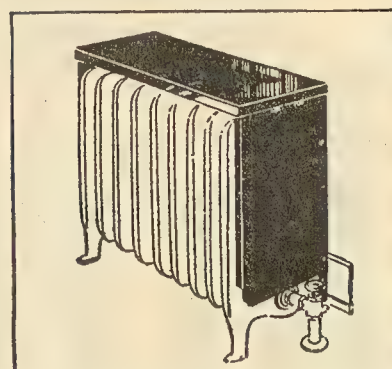
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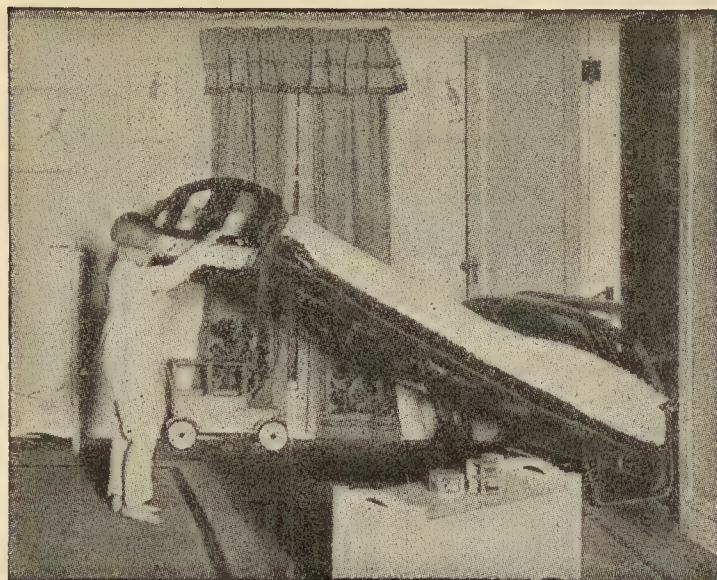
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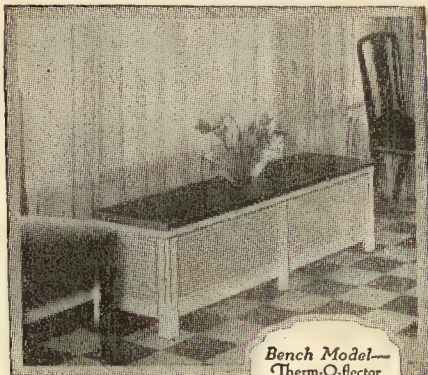
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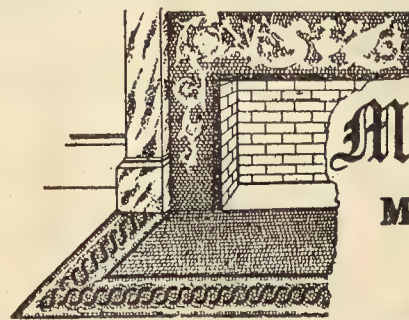
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Stores (add. and alts.), \$12,500. 6339-41 Woodland avenue, Philadelphia. Contract awarded Louis Rosengarten; Otis Building, Philadelphia. Owner, N. Shore, on premises. Brick, 2 stories add., 9x42 feet, general alterations.

Residences and Stores (2) (alts.), \$2,500. 1421-23 West Fairmount avenue, Philadelphia. Contract awarded Frank I. Wintz, Inc., 1618 North Twenty-seventh street, Philadelphia. Architect, private plans. Owner, B. B. Leider, 1504 West Fairmount avenue, Philadelphia. General alterations.

Office, Northwest Corner Seventy-ninth and Bartram avenue, Philadelphia. \$2,100. Contract awarded C. Reign, 2510 South Seventy-first street, Philadelphia. Architect, private plans. Owners, Animal Rescue League, 7835 Bartram avenue, Philadelphia. Concrete block, 1 story, 24x24 feet.

Bakery (repairs), \$2,000. Southeast Corner Twenty-second and Ontario streets, Philadelphia. Contract awarded Equity Construction Co., Inc., 25 West Forty-third street, New York City. Architect, private plans. Owners, Ward Baking Co., 367 Southern Building, New York. General repairs.

Apartment House, \$250,000. East side Seventeenth street, South of Roslyn street, Philadelphia. Contract awarded Charles E. Spahn, 1420 Walnut street, Philadelphia. Architect, Charles H. Donehower, 1420 Walnut street, Philadelphia. Owners, Roslyn Hall Co., 1420 Walnut street, Philadelphia. Brick, 4 stories, 90x80 feet, vapor heat, electric light, tile work, slag roof, hardwood and pine floors.

Apartment Houses (3), \$195,000. Northeast Corner Forty-seventh and Aspen and East side Forty-seventh street, North of Aspen street. Contract awarded Samuel L. Green, 916 North Sixth street, Philadelphia. Architect, private plans. Owner, Louis Weintraub, 106 Albion Place, Atlantic City, N. J. Brick, 4 stories, 44x97 feet, slag roof, hardwood and pine floors, steam heat, electric light, tile work.

Residences (2), \$16,000. 629-31 East Rector street, Philadelphia. Contract awarded William D. Ralston, 5199 Ridge avenue, Philadelphia. Architect, private plans. Owner, Charles Britsch, 6080 Ridge avenue, Philadelphia. Brick, 2 stories, 16 feet 6 inches x 50 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residence (add. and alts.), \$4,000. 768

North Forty-first street, Philadelphia. Contract awarded William F. Minzer, 4313 Lancaster avenue, Philadelphia. Architect, private plans. Owner, Minerva M. Snyder, 768 North Forty-first street, Philadelphia. Brick, 3 stories add., 12x18 feet, general alterations.

Factory (alts.), \$3,000. 2419 South street, Philadelphia. Contract awarded John Ehman, 1908 Tasker street, Philadelphia. Architect, private plans. Owner, J. D. Howley, 2415 South street, Philadelphia. General alterations.

Garage (add.), \$2,000. 514 Sedgwick street, Philadelphia. Contract awarded H. D. Wright, 231 Sydney street, Philadelphia. Architect, private plans. Owner, F. A. Taylor, on premises. Stone, cinder block, 1 story add., 16x60 feet, cement floors, slag roof, electric light.

Power House Chimney, \$45,000. East side Thirty-second street, North of Market street, Philadelphia. Contract awarded Weiderholdt Construction Co., St. Louis, Mo. Owners, Pennsylvania Railroad Co., 15 North Thirty-second street, Philadelphia. Reinforced concrete, brick, 22x325 feet.

Building (alts.), 2010-12 Sansom street, Philadelphia, and 2009-11 Moravian street, Philadelphia. Contract awarded Alfred E. Martin, 1702 Race street, Philadelphia. Architect, private plans. Owner, Geo. Burton, Queen, Chestnut Hill, Pa. Changing building for wholesale florist purposes.

Garage add.), 13th and Oak Lane, Philadelphia. Contract awarded Knox Landers, 1132 Vine street, Philadelphia. Architect, Thalheimer & Weitz, 10 south 18th street, Philadelphia. Owner, David N. Mitchell, on premises. Architectural terra cotta, cement and concrete work, demolition, excavation, stone work, hardware, carpentry and millwork, metal lath, plastering, painting, glazing, steel (plumbing, heating, electric and oil burners reserved).

Factory (add.), \$23,000. Northeast corner Hunting Park avenue and Stokeley street, Philadelphia. Contract awarded Wark Co., 1600 Walnut street, Philadelphia. Owners, E. G. Budd Mfg. Co., 25th and Hunting Park avenue, Philadelphia. Brick, 2 story addition, 31x142 feet.

Store (add.), \$14,000. 223 East Woodland avenue, Philadelphia. Contract awarded Wm. F. Koelle Co., 1633 Race street, Philadelphia. Owner, F. W. Woolworth Co., Franklin Trust Building, Philadelphia. Brick, 2 story addition, 40x35 feet.

Pennsylvania Construction News

Bank Building, \$50,000. Harleysville, Pa. Work contemplated. Architect will be selected in two weeks. Owners, Harleysville National Bank, A. C. Alderfer, president; Dr. V. Kelser, vice-president and secretary, Harleysville, Pa.

School, Glen Mills, Pa. Work contemplated. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owners, Glen Mills School, 1420 Walnut street, Philadelphia, George J. Watson, chairman of Building Committee, 421 Chestnut street, Philadelphia. Brick, steel, stone, concrete. Details undecided.

Theatre, Stores (6), Apartments (23), Pottstown, Pa. Preliminary plans in progress. Architect, Henry Reinhold, 1632 Walnut street, Philadelphia. Adv. architect, W. Ellis Groben, 1051 Sixty-ninth avenue, Philadelphia. Owners, St. Clair Corporation, 402 DeKalb street, Norristown, Pa. Reinforced concrete, fireproofing, seating capacity 2,500, 4 stories.

Apartment (alts. and add.), Chester pike, Collingdale, Pa. Plans in progress. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owner, Milton L. Staley, Darby Trust Building, Darby, Pa. Brick, concrete, brick, 3 stories, 30x30 feet, 6-family, slag roof, hardwood floors, electric light, tile work, fire doors.

Apartment House, Ardmore, Pa. Preliminary plans in progress. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owner, name withheld. Brick, stucco, 3 stories, 24 apartments.

Stores (alts.), Cedar and Mills streets, Bristol, Pa. Work contemplated. Owners, Gallagher & Gallagher, on premises. Brick, 2 stories, 70 feet, new front, stone, metal bars, plate glass.

Residence and Garages (6), State and Overhill roads, Cynwyd, Pa. Plans completed. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Stores (4) and Apartment, Strafford, Pa. Plans in progress. Architect, John Charles Norton, 336 Lenox street, Brookline, Pa. Owner, name withheld. Brick, 2 stories, 20x68 feet, slag roof, hardwood floors, metal ceilings, hot water heat, electric light, tile work.

School, Oley Township, Pa. Preliminary plans in progress. Architects, Scholl & Richardson, 510 Walnut street, Reading, Pa. Owners, Oley Township School Board, Isaac S. Rothenberger, Limekiln, Pa.

Residence and Garage, \$30,000. Crest lane and Baltimore avenue, Swarthmore Crest, Pa. Work contemplated. Owner, Gordon B. Burlingame, care of W. E. Wicham, Media, Pa. Tapestry brick, size of lot 100x154 feet.

High School, \$120,000. Dunmore, Pa. Architect selected. Architect, E. J. Rutledge, Union Bank Building, Scranton, Pa. Owners, Dunmore School District, P. J. Dempsey, president, 117 Grove street, Dunmore, Pa. Brick, steel, 14 rooms.

Office Building (alts.), Scranton, Pa. Too early for details. Architects, E. H. Davis and George M. D. Lewis, Board of Trade Building, Scranton, Pa. Owners, Scranton Electric Co., Board of Trade Building, Scranton, Pa. General interior alterations.

Bank, Scranton, Pa. Plans in progress. Architect, D. H. Morgan, Union Bank Building, Scranton, Pa. Owners, East Scranton State Bank, care of E. H. Hausser, 1417 Ash street,

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April 6, 1929

ANNOUNCEMENT

The enlarged Warner Company (formerly Charles Warner Company), has acquired the properties and business of The Van Sciver Corporation.

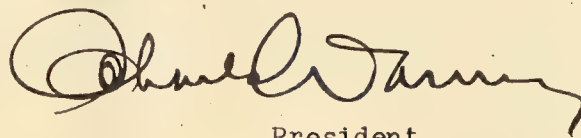
The operations of these two companies have been substantially parallel, resulting in wasteful duplication of effort and facilities.

It is believed that Warner Company, by this acquisition, will be able to function more efficiently and that material economies, particularly in transportation and distribution, will be effected.

The enlarged Warner Company will have as its objective the constant betterment of its service and the continuance of the reputation of both predecessor companies for quality products.

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President



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State Home, \$250,000. West Shore, New Cumberland, Pa. Work contemplated. Owners, Cumberland Valley State Institution for Mental Defectives, New Cumberland, Pa.

Church, Market and Simpson streets, Harrisburg, Pa. Work contemplated. Owners, Grace Evangelical Congregation, Rev. J. D. Shortess, Harrisburg, Pa.

Synagogue, 242 South Franklin street, Wilkes-Barre, Pa. Plans in progress. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Ohabzodek Hebrew Congregation, Rabbi I. M. Davidson, 300 East South street, Wilkes-Barre, Pa. Brick, steel, 1 story and basement, 68x120 feet, slag roof, hardwood floors, hollow tile, roof ventilators, waterproofing and dampproofing, architectural terra cotta, bronze, ornamental iron, tile, marble, metal lath, electric work.

School, Newport, Pa. Plans in progress. Architect, T. A. Foster, Brooks Building, Wilkes-Barre, Pa. Owners, Newport School Board, care of architect. Brick, steel, 2 stories, 60x190 feet, built-up roof, maple floors, hollow tile, roof ventilators, waterproofing and dampproofing, ornamental iron, iron stairs, bond, fire doors, steel sash, metal lath, electric work.

Hospital, \$750,000. Easton, Pa. Ready for bids in a week. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Easton Hospital, H. Lehr, 1200 Butler street, Easton, Pa.

Apartment House, Wynnefield, Pa. Architect taking sub-bids. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, steel, 4 stories, 48x100 feet, built-up roof, hardwood and cork floors, kitchen equipment, built-in beds, electric light, metal lath.

Church, Chestnut street, between Heather and Kent roads, Upper Darby, Pa. Ready for bids in two weeks. Architect, Stanford B. Lewis, 1713 Sansom street, Philadelphia. Owners, First Church of Christ Scientist, J. M. Tatum, 6235 Chestnut street. Stone or brick, 2 stories.

Municipal Building (add.), Upper Darby, Pa. Plans completed. Owners ready for bids. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Commissioners of Upper Darby, J. Wolfender, Cardington, Pa. Reinforced concrete, steel, limestone, granite, 4 stories, 128x56 feet, 75x50 feet, built-up roof,

cement floors, marble floors, elevators, vapor heat, electric light, oil burners, tile, marble and terrazzo work, prison equipment, fire apparatus, bronze work, iron work.

Fire House, \$30,000. Berwyn, Pa. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Berwyn Fire Company, No. 1, Edward Stumpf, chairman, Berwyn, Pa. Brick, stone, 2 stories, 32x80 feet. Plans completed. Architect ready for bids in ten days.

Inn (alts. and add.), **Stores (2)**, Coatesville, Pa. Plans about completed. Architect will be ready for bids in ten days. Architect, C. W. Brazier, Chester, Pa. Owners, Coach and Four Inn, Stewart Huston, Coatesville, Pa. Brick, steel, general alterations and addition to present building, 4 stories add., 41x75 feet.

Apartment House, Norwood, Pa. Plans in progress. Owner will sub-let in about one week. Architect, private plans. Owner, J. Walter Austin, Norwood, Pa. Brick, 2 stories, 20x50 feet, composition roof, hardwood floors, hot water heat, electric light, tile work.

Residence, Rosemont, Pa. Plans completed. Ready for bids in a week. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories.

Church, Olyphant, Pa. Architect will be ready for bids in one week. Architect, Vincent Russoniello, 417 North Ninth street, Scranton, Pa. Owners, Holy Ghost Roman Catholic Church, Rev. J. J. Dulik, 120 Willow street, Olyphant, Pa. Brick, stone, steel, 1 story, 58x140 feet, tile roof, composition floors, vapor heat, electric light, metal lath.

Mears Building (alts.), Scranton, Pa. Architects will be ready for bids first of next week. Architects, E. H. Davis and George M. D. Lewis, Board of Trade Building, Scranton, Pa. Owners, Estate of J. A. Mears, Mears Building, Scranton, Pa. Steel work, slag roof, concrete floors, gypsum work, partitions.

Apartments, Narberth, Pa. Plans in progress. Owner will take bids in about a month. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owner, John S. Hinkle, 605 Penn street, Yeadon, Pa. Brick, steel, limestone, 5 stories and basement, 125x250 feet, hardwood floors, electric light, tile work, elevators.

Residence and Garages (20), Yeadon, Pa. Plans in progress. Owner will build. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owner, A. Hoffman, 2605 South

Fifteenth street, Philadelphia. Brick, stone, stucco, 2 stories, 18x40 feet, slag and slate roof, hardwood floors, central heat, electric light, tile work.

Parochial School, Yeadon, Pa. Ready for bids in a few days. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owners, St. Louis Roman Catholic Church, Rev. T. J. Burke, Yeadon, Pa. Brick, stone, 3 stories.

Residence and Garage, Fairview, Narberth, Pa. George R. Markle, Narberth, Pa., will build. Architect, private plans. Owner, Dr. C. W. White, Narberth, Pa. Stone, frame, 2½ stories, 16x43 feet, 16x18 feet, shingle roof, hardwood floors, electric light, tile work.

Residence and Garages (2), Narberth, Pa. Owner will build and is taking sub-bids. Owner, George R. Markle, Narberth National Bank Building, Narberth, Pa. Stone, frame, 2½ stories, 28x43 feet, shingle roof, hardwood floors, electric light, tile work.

Stores and Apartments (4), Lincoln Highway, Paoli, Pa. Plans in progress. Owner will build and will take sub-bids in about 10 days. Architect, Boyle Irwin, Paoli, Pa. Owner, Lowell Gable, Paoli, Pa. Brick, limestone, 1 story, 83x75 feet, slag roof, maple floors, hot water heat, electric light, stone front, metal ceilings.

Administration Building and Boiler Room, Fourth and Chew streets, Allentown, Pa. Architects will be ready for bids in one week. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Hospital, 421 Chew street, Allentown, Pa. Brick, concrete, 4 stories and basement, 42x112 feet, 2 stories, 40x70 feet, slag roof, hollow tile, elevators, cast stone, brass pipe, ornamental iron, iron stairs, kalamein doors, tile, marble, terrazzo, metal lath, electric work, dampproofing, reinforced concrete floors.

Double Residence, Northampton, Pa. Owner will build. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Michael Peerdeck, 463 East Ninth street, Northampton, Pa. Brick, 2 stories, 32x43 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Bungalow, Allentown, Pa. Owner will build. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, J. W. Turner, 650 Main street, Bethlehem, Pa. Stucco, 1 story, 28x50 feet, asbestos roof, hardwood floors, hot water heat, electric light, tile work.

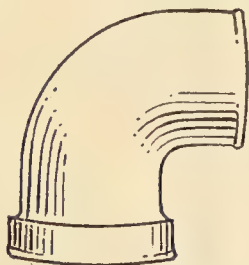
Residences and Garages (2), Farriston road, Wayne, Pa. Owners will build and will take sub-bids. Architect, private plans. Owners, W. D. & H. T. Smedley, Narberth, Pa. Concrete block, stucco, 2½ stories, 28x38 feet, 40x40 feet, shingle and tile roof, hardwood and cement floors, hot water heat, electric light, metal lath, tile work.

Store Front (alts.), South Main street, Wilkes-Barre, Pa. Plans in progress. Architect will take bids in one week. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, I. Engel, 16 East Jackson street, Wilkes-Barre, Pa. Stone, tile, marble, architectural terra cotta.

School, Retreat, Pa. Owners will be ready for bids in one week. Architect, R. M. Herr, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Newport Township School Board, Mr. Morgan, secretary, Retreat, Pa. Brick, 1 story, 2 rooms, slag roof, pine floors (heating, plumbing and electric separate).

Administration Building (alts. to basement), Penhurst, Pa. President taking bids due April 24th at noon. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Penhurst State School, Board of Trustees, J. Hibbs Buckman, president, 1104

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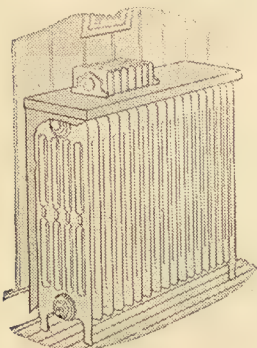
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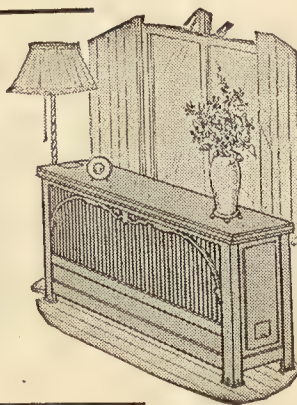
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Residence and Garage, Baltimore and Riverview streets, Swarthmore, Pa. Architect taking bids due April 12th. Architect, J. Liner Conarroe, 1518 Walnut street, Philadelphia. Owner, Charles Andos, care of architect. Brick, frame, 2½ stories and basement, 70x25 feet, shingle roof, oak and pine floors, tile work.

Residence, Quakertown, Pa. Owner taking general and sub-bids. Architect, J. Rapp, Richland, Pa. Owner, A. H. Nicholas, Quakertown, Pa. Stone, 2½ stories, 30x44 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Wolf Junior High School (alts.), Easton, Pa. Owners taking bids due April 22nd. Architect, E. H. Wenzelberger, 224 Northampton street, Easton, Pa. Owners, Easton School Board, William Peifer, secretary, Second and Church streets, Easton, Pa. Partition work, toilets, tile, marble, plastering.

Residence and Garage, Fairfax road, Drexel Park, Pa. Architect taking bids due April 15th. Architect, Roy F. Larson, 112 South Sixteenth street, Philadelphia. Owner, Samuel L. Hibberd, Lansdowne, Pa. Stone, steel, 2½ stories and basement, 51x37 feet, slate or shingle roof, oak and pine floors, painting, glazing, plumbing, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, brass pipe, excavation.

Consolidated School, East Faxon, Williamsport, Pa. Owners taking bids due April 17th, at 8 P. M. Architect, W. D. Shollenberger, 11 West Fourth street, Williamsport, Pa. Owners, Loyalsock Township School Board, B. S. Bower, president; Albert Swartz, secretary, 1840 East Third street, Williamsport, Pa. Brick, 2 stories.

High School, Collingdale, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners taking bids due April 27th. Owners, School Board, W. H. Milbourne, Collingdale, Pa. Brick, 2 stories. Deposit, \$25.

Storage Facilities, Sixth and Spring streets, Reading, Pa. Owners taking bids due April 19th. Architect, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Brick, steel, reinforced concrete, 3 stories, 350x73 feet, 1 story, 255x40 feet, 1 story, 71x25 feet, cement floors, slag roof, rolled steel sash, bond, ornamental iron work.

Residence No. 12, Rosemont, Pa. Architects taking bids due April 15th. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld.

Church, Allentown, Pa. Architects taking bids due April 16th. Architects, Cherry & Matz, 441 Lexington avenue, New York City. Owners, Grace Lutheran Church, Rev. P. G. Beers, Allentown, Pa. Stone, 1½ stories and basement, 75x125 feet, slate roof, maple and pine, cement floors, bond, ornamental iron work.

Parish House, Lansdale, Pa. Architect taking bids due April 12th. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Holy Trinity Episcopal Church, Lansdale, Pa.

State Motor Patrol School, Harrisburg, Pa. Low bidders. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Pennsylvania Department of Highways, J. L. Stuart, Harrisburg, Pa. Curtis Company, 10 South Eighteenth street, Philadelphia, \$114,400; F. K. Worley Construction Co., Wesley Building, \$117,577.

Consolidated High School, Damascus, Pa.

Low bidder: John Lynch, Old Forge, Pa. Architect, Lewis Hancock, Mears Building, Scranton, Pa. Owners, Damascus Township School District, Fred Seipp, secretary, Damascus, Pa. Frame, 2 stories, 103x72 feet, asbestos roof, maple and pine floors (heating, plumbing and electric separate).

Residences (3), Mt. Pleasant avenue and Panorama road, Villa Nova, Pa. Flanagan & Flanagan, Bryn Mawr, Pa., will build. Owner, R. L. Murray, Wynnewood, Pa. Details undecided.

Residence (alts. and add.), Mechanics Valley, Pa. Low bidder: Charles Gilmore, Buckingham, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Webster S. Archey, Doylestown, Pa.

Grading and Paving, Glenside, Pa. Owners taking bids due April 25th, at 8 P. M. Owners, Commissioners of Abington Township, E. Raymond Ambler, secretary, Township Offices, Abington, Pa. Grading, constructing concrete curb and gutter paving, macadamizing the roadway, constructing sidewalks, building walls and steps, removing trees, shrubs, etc., in conjunction with the widening of Mt. Carmel avenue between Easton road and Keswick avenue, Glenside, Pa. Certified check, 2 per cent. Deposit of \$5.

Grading and Curbing, Tyson avenue, from Mt. Carmel avenue to Jenkintown road, Abington, Pa. Owners taking bids due April 25th at 8 P. M. Owners, Highway Committee of Abington Township, York road and Horace avenue, Abington, Pa. Grading, constructing combined concrete curb and gutter paving, repairing or replacing all defective sidewalks.

Storm Water Sewer, North Glenside, Pa. Owners taking bids due April 25th at 8 P. M. Deposit, \$5. Owners, Commissioners of Abington Township, Township Offices (E. Raymond Ambler, secretary), Ambler, Pa. Certified check, 2 per cent.

Concrete Paving, approaching Holland Bridge State Road, Crum's Creek, Pa. Owners, Commissioners of Delaware County, G. T. Wades, Media, Pa. Certified check, \$500. Owners taking bids due April 16th.

Sidewalk Repairs, Chester, Pa. City Engineer and R. C. Wheller, 505 Market street, Chester, Pa. Deposit, \$2.00, refunded. Certified check, 5%. Owners taking bids due Apr. 9, 2 P. M. Owners, City of Chester, Pa.

Residence and Garage, Fairfax road, Drexel Park, Pa. Architect taking bids due April 15th. Architect, Roy F. Larson, 112 South

16th street, Philadelphia. Owner, Samuel L. Hibberd, Lansdowne, Pa.

Church, Kutztown, Pa. Architect taking bids due April 18th at 5 P. M. Architect, Harry Maurer, 234 North 5th street, Reading, Pa. Owners, John R. Gouser Memorial Church, Fairview Cemetery Association, Kutztown, Pa., care of architect. Stone, 1 story, 35x65 feet, slate roof, tile floors, hot water heat, electric light, tile, marble.

Residence, Morrisville, Pa. Owner will build and sub-let. Architect, Evert R. Foster, East Trenton avenue, Morrisville, Pa. Owners, E. Foster & Sons, 50 East Trenton avenue, Morrisville, Pa. Frame, 2 stories, 25x40 feet.

Bungalows (number not decided), Croyden, Pa. Work contemplated. Owner will build, working on first unit. Architect, private plans. Owner, John Seigel, 4850 Roosevelt Blvd., Philadelphia. Brick, frame, 1½ stories, 26x46 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Church and Parish House, Stonehurst, Pa. Architects taking bids due April 16th at noon. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owners, St. Giles P. E. Church, Rev. Walter C. Pugh, Upper Darby, Pa. Brick, stone, 1 story and 2 stories, hardwood and maple floors, electric light.

Pennsylvania Contracts Awarded

Residence (add.), Penarth road, Cynwyd, Pa. Contract awarded S. DiMascio, Cynwyd, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia, Pa. Owner, name withheld. Garage addition, 2 stories, stone and clapboard, 20x22 feet, cement, hardwood floors, slate roof, metal lath.

Sales and Service Building (alts.), Norristown, Pa. Contract awarded Harry Brown, Collingdale, Pa. Architect, private plans. Owners, Jones Motor Co., care Mr. Peters, 322 Main street, Norristown, Pa. General alterations.

Factory and Office Building, Spring Mill, Pa. Contract awarded Frank G. Stewart, 1520 Locust street, Philadelphia. Plans in progress. Architect, Ralph Bencker, 13th and Chestnut streets, Philadelphia. Owners, Walker Bros., H. F. Walker, Spring Mill, Pa. Brick, 3 stories, 120x100 feet, slag roof, pine and cement floors.

Residences (2), Cynwyd, Pa. Contract awarded to Wm. C. Meade, Yeadon, Pa. Architect, John L. Coneys, Drexel Building, Phila-

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delphia. Owner, name withheld. Concrete block and stone, 2½ stories, 47x30 feet, 20x22 feet, slate roof, stone, stucco, 2½ stories, 28x46 feet, 20x22 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work.

Dye House (add.), Eighth and Harrison streets, Allentown, Pa. Contract awarded Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Arcadia Knitting Mills, 749 Harrison street, Allentown, Pa. Brick, steel, cast stone, 4 stories and basement, 67x07 feet, kalamein doors, bond, demolition, reinforced concrete work, waterproofing, floor hardener (Hor or equal), concrete walks, iron work, area gratings, screens, steel sash (Fenestra or Truscon), steel rolling rolls, Barrett specification roof, maple floors (plumbing, electric, heating, elevators, sprinkler system separate).

Store and Office Building, Lewistown, Pa. Contracts awarded. Architects, Witman & Royer, Central Bank Building, York, Pa. Owner, A. Reed Hayes, Lewistown, Pa. Brick, architectural terra cotta, steel, 2 stories and basement, 114x68 feet, bond, excavation, concrete and cement work, waterproofing, stone, granite, iron work, steel doors, metal window guards, steel sash, lumber, maple and oak floors, composition roof, bronze grills, metal toilet partitions, dampproofing, tile and marble, composition floors (electric work, heating and plumbing separate). General awarded to W. D. Steinbach's Sons, Lewistown, Pa. Heating awarded to Furman & Oles, Lewistown, Pa.

Stores (4), Offices (8), \$90,000. Washington avenue and Spruce street, Scranton, Pa. Contract awarded A. S. Shafer, 4651 Walnut street, Philadelphia, who is taking sub-bids due at once. Architect, private plans. Owners, Whalen Drug Co., 44 West Eighteenth

street, New York City. Brick, hollow tile, 2 stories, 50x100 feet, demolition, maple floors, excavation, hardware, plate glass, roof ventilators, metal ceilings, caulking, coal chutes, copper work, architectural terra cotta, granite, cast stone, dumb waiter, iron work and stairs, carpentry and mill work, metal toilet partitions, dampproofing and waterproofing, tile, marble and terrazzo work, metal lath.

Building (alts. and add.), Easton road and Wharton avenue, Glenside, Pa. Contract awarded Conneen Construction Co., 770 South Schuylkill Ave., Phila. Architect, Philip S. Tyre, 114 S. Fifteenth street, Philadelphia. Owner, Lloyd B. Ely, Glenside, Pa. Brick, steel, 2 stories and basement, 48x50 feet, excavation, concrete and cement work, hardware, waterproofing, tile work, cement floors, metal windows, metal doors, iron work, painting, granite, area grating, stucco, electric, plumbing, oil burners, vapor heat.

Church, Aronimink, Delaware County, Pa. Contract awarded John R. Schaeffer, 3731 North Seventh street, Philadelphia. Architect, Louis Ward Easby, 1420 Chestnut street, Philadelphia. Owners, Church of the Holy Comforter Episcopal Church, W. W. Schiffer, on premises. Stone, cast stone, steel, 1 story, 91x66 feet, steam heat, electric light, metal lath, bond, ornamental iron work, casement windows, excavation, metal toilet partitions, slate roof, maple and cement floors.

Residences and Garages (3), P-5, B-9, F-9, Merion Golf Manor, Pa. Contract awarded F. H. Wilson, Ardmore, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, W. H. Wilson & Co., 1617 Walnut street, Philadelphia. Stone, hollow tile, stucco, excavation, brick work, cement, oak and pine floors, sheet metal work, shingle roof, iron work, tile floors, carpentry and mill work, metal lath, plastering, painting, glazing, hardware (heating, plumbing, electric, finished hardware, refrigerator,

screens, weather strip reserved). P-5, 2½ stories and basement, 54x27 feet, 23x19 feet; B-9, 2½ stories and basement, 46x26 feet, 20x18 feet; F-9, 2½ stories and basement, 41x25 feet, 20x18 feet.

Residence and Garages (3), 468-69-79, near Oakmont, Pa. Contract awarded Metzger & Co., Otis Building, Philadelphia. Architects, Wallace & Warner, Franklin Trust Building, Philadelphia. Owners, William H. Wilson Co., 1617 Walnut street, Philadelphia. Stone, brick, limestone, excavation, bond, iron work, concrete and cement work, flagstone, limestone, excavation, cinder concrete block (Straub), oak, pine and cement floors, carpentry and mill work, hardware, structural steel, area gratings, metal lath, plastering, painting, glazing, casement sash (Thorn, Feneston, Lupton), slate roof, slag roof, plumbing, hot water heat, boiler, oil burner, electric work, tile work, shingle roof. No. 468, 2 stories and basement, 48x26 feet, 20x18 feet. No. 469, 2½ stories and basement, 42x26 feet, 20x18 feet. No. 470, 35x34 feet, 18x11 feet.

Twin Residences (3) and Residences (4), Asbourne, Pa. Contract awarded Aldine Construction Co., Wesley Building, Philadelphia, who are taking sub-bids due as soon as possible. Architect, Clarence L. Caspar, Mitten Building, Philadelphia. Owner, Asbourne Development Co., care of builder. Stone, brick, 2½ stories and basement, 22x55 feet, slate roof, oak and pine and linoleum floors, hot water heat, electric light, tile work, ornamental iron work.

Servants' and Laundry Quarters, Ardmore, Pa. Contract awarded Metzger & Co., Otis Building, Philadelphia, who are taking sub-bids due as soon as possible. Architect, private plans. Owner, J. H. Carstairs, Ardmore, Pa. Stone, 2 stories, 21x17 feet, stone work, cement work, iron work, carpentry and mill work, pine floors, painting, plastering, medicine cabinets, screens, hardware, electric work, hot air system, plumbing, shingle roof.

Cottage, Conshohocken road, Bryn Mawr, Pa. Contract awarded Unkerfer Brothers, Inc., Otis Building, Philadelphia. Architect, Ralph Colton, 1520 Locust street, Philadelphia. Owner, Mrs. S. W. Colton, on premises. Stone, frame, 1½ stories and basement, 30x46 feet, excavation, steel and iron, steel windows, slate roof, oak, pine floors, linoleum, carpentry and mill work, hot water heat, electric work.

Church (rear add.), Spring avenue and Locust street, Hanover, Pa. Contract awarded O. H. Hostetter Contracting Co., Hanover, Pa. Architect, I. M. Myers, Hanover, Pa. Owners, Grace Evangelical Church, care of Rev. E. J. Bayne, Hanover, Pa. Brick, 1 story rear add.

Residence and Garage, Pennstone road, Bryn Mawr, Pa. Contract awarded Unkerfer Brothers Company, Otis Building, Philadelphia. Architect, Ralph L. Colton, 1520 Locust street, Philadelphia. Owner, Mrs. Charles H. Burr, 115 South Twenty-first street, Philadelphia. Brick, 2½ stories, 44x53 feet, wing 18x21 feet, slate roof, hardwood floors, hot water heat, electric light, brass pipe.

Residence (alts. and add.), Doylestown, Pa. Contract awarded W. Eckert, Doylestown, Pa. Architect, Harry Hestand, Doylestown, Pa. Owner, Justin Ely, Doylestown, Pa. Rear add., brick, 2 stories, 16x20 feet, tin and slate roof, plumbing, alterations to residence.

Residences and Garages (5), Beverly Hills, Pa. Contracts awarded. Architect, R. B. Serano, 2265 Garrett road, Drexel Hill, Pa. Owner, Edward J. Walsh, 2441 Garrett road, Drexel Hill, Pa. Stone, frame, brick, stucco, 2½ stories, 25x40 feet, 26x36 feet, irregular, shingle roof, hardwood floors, hot water heat, electric light work. One awarded to Frank W. Powers, care of owner. Two awarded to

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Harry Bozarth, Beverly Hills, Pa., on site. Two awarded to Henry B. Hunt, Springfield, Pa.

Residence (add.), Markham, Pa. Contract awarded J. W. Worriow, 422 Orange street, Media, Pa. Architect, private plans. Owner, Fred M. Mitchell, North Latches lane, Merion, Pa. Stone, concrete block, stucco, 2½ stories, 38x28 feet, with porch extension, 28x34 feet, shingle roof, North Carolina pine floors, hot water heat, electric.

Residence and Garage, Penarth road, Cynwyd, Pa. Contract awarded James MacMakin, Narberth, Pa., taking sub-bids. Architect, private plans. Owner, name withheld. Stone, cinder block, stucco, 3 stories, 41x45 feet, shingle roof, hardwood floors, hot water heat, electric light, 3 tile baths. James MacMakin, 503 South Narberth avenue, Narberth, Pa.

Convent, Bethlehem, Pa. Contract awarded E. E. Garber & Co., 203 West Fourth street, Bethlehem, Pa. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, St. John's Hungarian Church, Bethlehem, Pa. Brick, 2½ stories, 35x58 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Warehouse, Allentown, Pa. Contract awarded Hoch Contracting Co., 329 North Thirtieth street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Lehigh Valley Outdoor Advertising Corporation, J. McLaughlin, 1905 Hanover street, Allentown, Pa. Brick, steel, 1 story, 80x120 feet, 30x30 feet, slag roof, concrete floors, steam heat, steel sash, skylights.

Residences (3), Montgomery and Airedale avenues, Rosemont, Pa. Contract awarded Metzger & Co., Otis Building, Philadelphia. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement, 56x34 feet, shingle roof, oak and pine floors.

Airport, Bristol, Pa. Contract awarded Airport Development & Construction Co., Mitten Building, Philadelphia. Owners, Keystone Air Craft Corporation, Bristol, Pa. Brick, steel, hollow block, 1 story, 90x286 feet, steel trusses, built-up roof, plumbing, ventilating, sprinkler, heating, electric work.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Westmoreland County, R-119, Sec. 5-A, Unity Township. One course reinforced concrete. Michael Barber, Binghamton, N. Y., \$66,446.07.

Butler County, R-75, A-5529, 5603, Center, Oakland and Concord Townships. One course reinforced concrete, grading and drainage. Charles Winters Construction Co., Butler, Pa., \$407,131.62.

Swimming Pool and Bath House. Architects, McIlvaine & Roberts, Otis Building,

Philadelphia. Location of the job: Haverford, Pa. Contract awarded C. C. Pace, Cynwyd, Pa. Owner, Edward H. Le Bouttiller, Haverford, Pa. Reinforced concrete, stone, 45x20 feet, bath house, 15x20 feet, shingle roof, cement floors, plumbing, integral waterproofing, electric light.

New Jersey Construction News

Hotel (add.), Pennsylvania avenue, Atlantic City, N. J. Sketches in progress. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Albert Darnell, Holmurst Hotel, on premises. Brick, steel.

Hotel, Atlantic City, N. J. Plans in progress. Architect will take bids in two weeks. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner, name withheld. Fireproof, 18 stories, 250x180 feet, brick, limestone, concrete roof, elevators, safety treads, roof ventilators, waterproofing and dampproofing, wrought iron pipe, brass pipe, ornamental iron, iron stairs, steel sash, tile, marble, electric light, steam heat.

Apartment House, 19 South Pennsylvania avenue, Atlantic City, N. J. Architect will be ready for revised bids in two weeks. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Charles F. Wahl, 33 South Pennsylvania avenue, Atlantic City, N. J. Brick, steel, 6 stories, 150x130 feet, concrete floors, composition and pine floors, concrete roof, cinder concrete block, elevators, safety treads, wood piling, waterproofing, cast stone, ornamental iron, iron stairs, kalamein doors, steel sash, tile, marble, metal lath, steam heat, electric light.

High School, Trenton, N. J. Owners will probably be ready for bids in two weeks. Architect, Ernest Sibley, Palisade, N. J. Owners, Board of Education, James S. Messler, president, 112 Academy street; Robert C. Bellville, secretary, 9 South Stockton street, Trenton, N. J.

Bungalows (8), Longport, N. J. Owner will build. Architect, Oscar Schmidt, Chelsea Bank Building, Atlantic City, N. J. Owner, George Brennan, 4 South Portland avenue, Atlantic City, N. J. Brick and frame, 2 stories, 19x26 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work.

Store and Loft Building (alts.), Trenton, N. J. Architect taking bids due no set date. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Hancock's, Broad and East Hanover street, Trenton, N. J. Vapor heat, electric light, tile work, composition floors, tile work, partitions, kitchen and restaurant equipment, composition floors.

Apartment House (alts.), Perry street, Trenton, N. J. Architect taking bids due no

set date. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, Mrs. Bruther, care of architect. General interior alterations, partitions, tile work, electric work (heating and plumbing reserved).

Cottage, State Village of Epileptics, Skillman, N. J. Owners taking bids due April 16th. Architects, Division of Architecture & Construction, Charles H. Leathem, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Senile Building, Greystone Park, N. J. Low bidder: M. Millimet, 988 Bergentine avenue, Union City, N. J., \$137,000. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Dept. of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2 stories and basement, 223x56 feet, Johns Manville built-up roof, bond, excavation, membrane waterproofing, integral waterproofing, dampproofing, cinder concrete block, limestone, granite, bluestone, iron, iron stairs, metal window guards.

Hospital, \$96,600. North Jersey Training School for Feeble Minded, Totowa, N. J. Low bidder: Charles Cona, 385 Haledon avenue, Paterson, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Wm. J. Ellis, Commissioner, State House, Trenton, N. J. Brick, concrete, steel, limestone, 2 stories and basement, 134x53 feet, excavating, reinforced concrete, membrane and integral waterproofing, cement floors, dampproofing, floor hardener, incinerator, bluestone, area gratings, iron stairs, plastering, metal guards.

Road Work. Route S-41, Sec. 2, King's Highway to Marlton, Burlington County, N. J. Low bidder: Camden Paving Co., Camden, N. J., \$232,813.94. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J.

Cinder Road and 8-inch Reinforced concrete Magazine, Pedricktown, N. J. Owner taking bids due May 3rd 2 P. M. (S. T.) Architect, private plans. Owners, Delaware Ord. Dept., G. S. Lavin, Capt., Ordinance U. S. A., Construction Quartermaster on premises. Deposit, \$10.00.

Residence (alts.), Penna avenue, Atlantic City, N. J. Plans in progress. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, name withheld. Interior alterations, Craftex, hardwood floors, tile work, rubber tile, plumbing (new system).

Residences (12), 3044-66 Mickle street, Camden, N. J., \$3,500 each. Permit issued. Owners, Davies Bros. Co., 1014 North 27th street, Camden, N. J. Brick, 2 stories, 16x32 feet, slag roof, hot water heat, electric work.

Residences ((4)), \$3,000 each, 2022-24-26-28

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South 10th street, Camden, N. J. Permit issued. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, H. Russell Bennett, Marlton, N. J. Brick, 2 stories, 18x30 feet, slag roof, warm air heat, electric light.

New Jersey Contracts Awarded

School and Church, Westmont, N. J. Contract awarded Knox Landers, 1132 Vine street, Philadelphia. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Holy Saviour Roman Catholic Church, Westmont, N. J. Brick, granite, steel, 2 stories and basement, 157x48 feet, excavation, reinforced concrete work, bond, floor hardener, waterproofing, dampproofing, cast stone, caulking, cinder block, steel bar joist, construction iron work, metal stairs, roof ventilators, built-up roof, pine floors, Austral windows, weather stripping, kalamein doors, tin-clad doors, hollow metal partitions, metal lath, plastering, marble and tile work, mastic floors, plumbing, electric work.

Factory (add.), South Clinton street, Trenton, N. J. Contract awarded William Burton & Son, 25 Weinder avenue, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Nadler Cigar Co., 1027 South Clinton avenue, Trenton, N. J. Brick, steel, 3 stories, 25x100 feet, slag roof, concrete floors, hollow tile, elevators, roof ventilators, dampproofing, reinforced concrete stairs, floor hardener, fire doors, skylights, steam heat, electric light, metal lath.

Restaurant (add.), Maine avenue and Boardwalk, Atlantic City, N. J. Contract awarded Hiram Mathis, 120 Atlantic avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Hackney's Restaurant, 215 Inlet, Atlantic City, N. J. Steel, concrete, 3 stories, 100x101 feet, slag roof, concrete floors, waterproofing and dampproofing, bronze, ornamental iron, steel sash, electric light, Webster heating.

School, \$250,000. Moorestown, N. J. Plans will be completed in about one week. Contract awarded J. S. Rogers, Drexel Building, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Moorestown Friends' School, Moorestown, N. J.

Residence and Garage, Moorestown, N. J. Contract awarded Clement B. Webster, Inc., Moorestown, N. J. Architect, Robert C. Martin, Otis Building, Philadelphia. Owner, Thomas B. Gibbs, Moorestown, N. J. Concrete block, stucco, 2½ stories, 50x75 feet, irregular, wood shingle roof, hardwood floors, hot air heat, electric light, tile work, metal sash, reinforced concrete, cement work, installation.

Residence (alts.), Riverton, N. J. Contract awarded Curtis B. Stavely, Palmyra, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Stuart B. Clark, Riverton, N. J. Installing 2 baths, carpentry and mill work, plumbing, tile work.

Residence (add.), Riverton, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Ralph L. Flower, Riverton, N. J. Stone, 2½ stories, 18x24 feet, slate roof, hardwood floors, plumbing, heating and lighting extensions, tile work, carpentry and mill work. Contract awarded Curtis B. Stavely, Palmyra, N. J.

Bath House, \$100,000. Ocean City, N. J. (Boardwalk, between Ninth and Tenth streets). Contract awarded John Marts, Ocean City, N. J. Architect, private plans. Owner, William H. Shriver, Ninth and Boardwalk, Ocean City, N. J. 50x250 feet, will

contain 560 steel lockers and 500 bath rooms.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J.

Route 25, Section 20, Contract 23, from Grove street to City Line at Edgar road, Elizabeth, Union County, N. J. J. B. Gilligan Casey Co., Newark, N. J., \$229,991.95. Alexauken Creek Bridge on Route 29, Hunterdon County. F. L. Grant, West Chester, Pa., \$20,046.60.

Route 39, Section 2, Bordentown to Chambers Corner, Burlington County, N. J. William Eisenberg & Sons, Smith-Austermuhl Building, Camden, N. J., \$106,506.95.

Office (alts.), \$3,000. Southwest corner Broadway and Jackson street, Camden, N. J. Contract awarded Wm. Wrifford, 724 Washington street, Camden, N. J. Owners, Herman Z. Cutter, Bridgeton, N. J. Changing partitions, general repairs.

Front (add.), \$2,400, 534 South 3rd street, Camden. Contract awarded Tony Morbito, 810 South 3rd street, Camden, N. J. Owner, Louis Strippoli, 534 South 3rd street, Camden, N. J. Brick, 2 stories, 7x11 feet, slag roof.

Store and Apartments, 6th and Cooper Sts., Camden, N. J. Contract awarded John C. Gibson, 521 Cooper street, Camden, N. J., who is taking sub-bids. Architect, private plans. Owner, name withheld. Brick, steel cast-stone, 3 stories and basement, 80x120 feet, slag roof, pine floors, metal lath, metal toilet partitions, linoleum.

Miscellaneous Construction News

Library, \$300,000. Morgantown, W. Va. Architect selected. Sketches being prepared. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, West Virginia University, care of State Board of Control, Joseph Larkin, president, Charleston, W. Va.

Service Stations (3). Location undecided. Plans in progress. Owners will build. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Atlantic Refining Co., Broad and Spruce streets, Philadelphia. Stucco, 1 story, electric light, plumbing, cement work, tile roof.

Knitting Mills, Frederick, Md. Architects taking bids due April 15th. Architects, Lockwood-Greene Co., 100 East Forty-second street, New York City. Owners, Union Manufacturing Co., Frederick, Md. Brick, steel, limestone, 1 story, 100x100 feet, built-up roof, cement floors, hollow tile, rolled steel sash, floor hardener, ornamental iron work.

Building, Washington, D. C. Architect taking bids due April 25th. Architect, C. B. Comstock, 110 West Fortieth street, New York City. Owners, General Baking Co., 420 Lexington avenue, New York. Brick, reinforced concrete, steel, 2 stories and basement, 240x162 feet, slag roof, concrete and cement floors, rolled steel sash, ornamental iron work.

Miscellaneous Contracts Awarded

Residence, Westover Hills, Wilmington, Del. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia. Architect, S. W. Pike, 1520 Locust street, Philadelphia, and 105 Creston avenue, Audubon, N. J. Owner, Earl E. Edinger, 1501 West Ninth street, Wilmington, Del. Brick, steel, 2½ stories and basement, 37x35 feet, wing

42x16 feet, wing 15x12 feet, bond, excavation, Master Builders' plaster bond, limestone, flagstone, concrete work, area gratings, metal lath, copper roof, plastering, shingle roof, tile and marble work, oak and pine floors, plastering, shingle roof, tile and marble work, oak and pine floors, metal case-ment sash, hardware, plumbing, wrought iron pipe (Byers or Reading), brass pipe, electric work, vapor heat (lighting fixtures, wrought and ornamental iron work reserved).

Department of Commerce Building, Washington, D. C., \$13,567,000. Contracts awarded Consolidated Engineering Co., Baltimore, Md. Architect, James A. Wetmore, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Elevators and dumb waiters awarded to Otis Elevator Co., Washington, D. C., \$544,967.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 4, 1929. Sealed bids will be opened in this office at 3 p. m., May 2, 1929, for remodeling and enlarging the U. S. post office at Sharon, Pa. Drawings and specifications may be obtained from the custodian of the building, or at this office in the discretion of the supervising architect. JAS. A. WETMORE, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 8, 1929.—Sealed bids will be opened in this office at 3 p. m., May 7, 1929, for remodeling and enlarging the U. S. post office at Gloversville, N. Y. Drawings and specifications may be obtained from the custodian of the building or at this office in the discretion of the supervising architect. JAS. A. WETMORE, Acting Supervising Architect.

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for April 1, 1929.

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(Signed)

Building News Publishing Co.,
Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 25th day of March, 1929.

H. A. Lang, Notary Public.
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Blue Print Shop, 1520 Sansom St., Phila.
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BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
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Charles Warner Co., Union Bank Bldg., Phila.
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The Parkway at 24th St., Phila.

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Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

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Maha, Thos. J., 226-32 W. Mentor St., Phila.
Jules H. Rosenberg, 2313 Walnut St., Phila.

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Cast Stone Products Co.,
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D'Lauro, John, 7732 Ardleigh St., Phila.
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Building News Pub. Co., 1530 Chestnut St., Phila.

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Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.
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Murphy Door Bed Co., Lewis Bldg., Phila.

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Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
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Pettit, Frank, Ornamental Iron Works,
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FIREPROOFING

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Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.
Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.
Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Harry A. Whartenby, Inc.,
1823 Brandywine St., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

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N. E. Cor. 15th and Locust Sts., Phila.
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Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

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Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.

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Pennsylvania Tile and Mosaic Co.,
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Roman Mosaic & Tile Co., 435 Green St., Phila.

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Weil, J. H., Co., 1315 Cherry St., Phila.

TRAVERTINE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

Pigeon, Ernest A., 4231 Filbert St., Phila.

WALL BOARD, COMPO BOARD

Ketcham, Howard, 3rd and Girard Ave., Phila.

WALL BOARD

Ketcham, Howard, 3rd and Girard Ave., Phila.
Pearce Fireproof Co., 1911 N. 2nd St., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

WALL COPING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

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California Stucco Products Co., 1316 Olive St., Phila.

WALL PLASTER

California Stucco Products Co., 1316 Olive St., Phila.

WATER HEATERS

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 16
April 17, 1929

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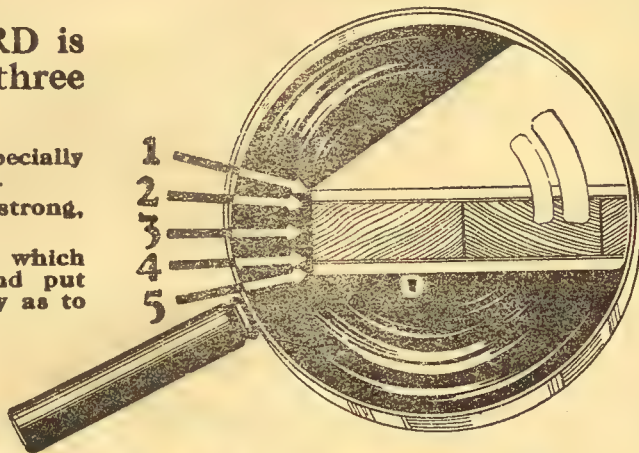
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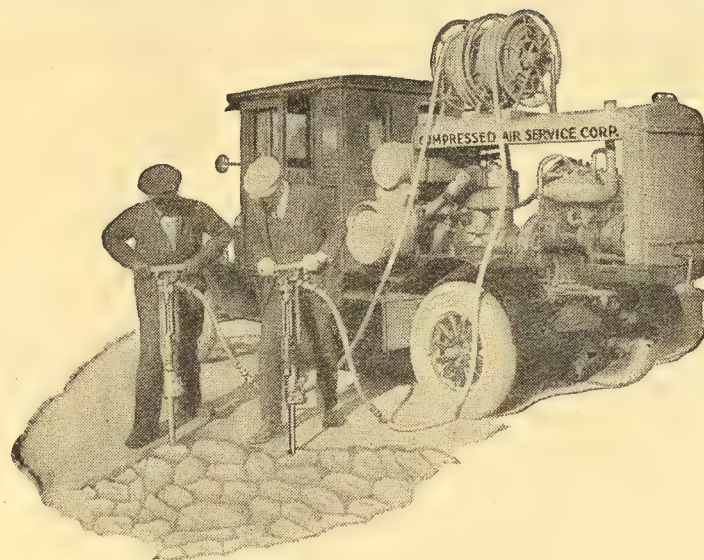
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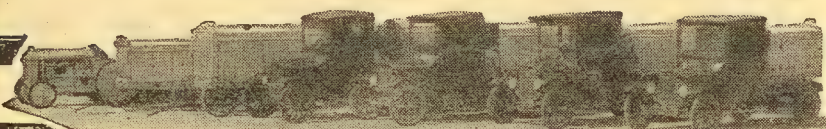
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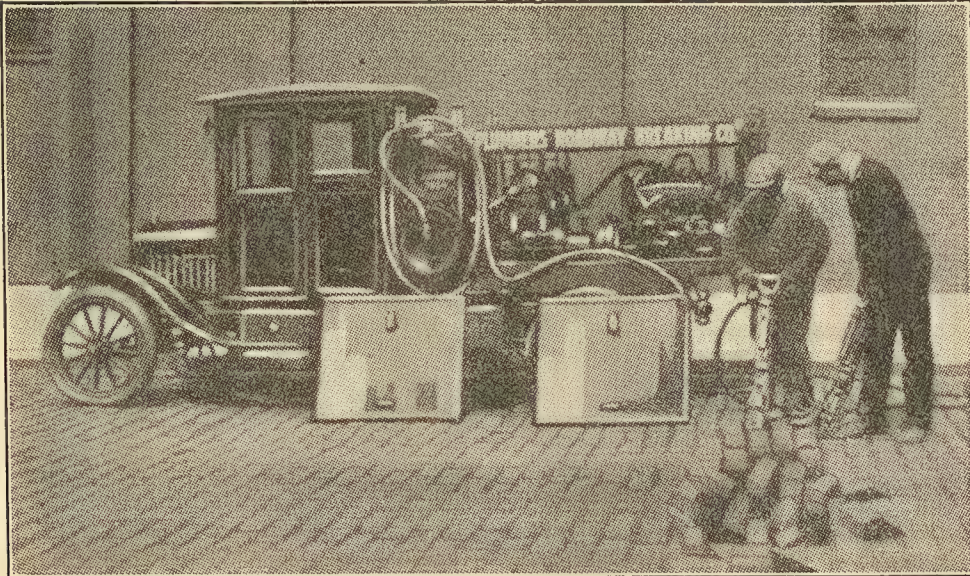
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 16

PHILADELPHIA
April 17, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY
BY

Building News Publishing Company, Inc.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence and Garage, Crefelt street, opposite Fairmount Park, Chestnut Hill, Pa. Preliminary plans being prepared. Owner, L. Fuller Parsley, 1421 Chestnut street, Philadelphia. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia.

Store (alts.), 1812-14 Chestnut street, Philadelphia. Architect taking bids due April 19th at noon. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Plate glss, carpentry and Millwork, terrazzo work, painting, glazing.

Residences (18), Fanshaw and Sackett streets, Philadelphia. Owner will be ready for sub-bids in two weeks. Architect, J. H. Rackie, 4341 Frankford avenue, Philadelphia. Owner, B. F. Gotwalls, 6669 Wayne avenue, Philadelphia. Brick, 2 stories, 16x54 feet, slag roof, slate and tin roof, hardwood floors, basement garages, hot water heat, electric light, tile work.

Residences (78), Walker and Algard, between Robbins and Levick streets, Philadelphia. Work contemplated. Owner, L. S. Oran, care of J. Edward Fry, 2202 North 15th street, Philadelphia.

Apartment, Chew and Cheltenham avenue, Philadelphia. Plans in progress. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, name withheld. Brick, 2 stories, 27 two-family apartments, irregular in size, central court, slag roof, hardwood floors, central steam heat, electric light, tile work.

Residences and Garages (3), \$75,000. Queen Lane Manor, Pa. Plans in progress. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, name withheld. Stone, 2½ sto-

ries, 26x42 feet, wing 15x18 feet, 18x18 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work.

Apartment House, \$200,000. South side Locust, East of Forty-eighth street, Philadelphia. Plans in progress. Architect, Lewis J. Cohen, Real Estate Trust Building, Philadelphia. Owners, Barnet & Joseph Rubin, 6227 Pine street, Philadelphia. Brick, stone, 72 suites.

Apartment House, York road and Hunting Park avenue, Philadelphia. Plans in progress. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, cast stone, 10 stories, 50x100 feet.

Apartment House, \$230,000. East side Cobb's Creek, between Fifty-ninth and Sixtieth streets, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, John T. Sinnott, Jr., 838 South Fifty-fifth street, Philadelphia. Brick, 4 stories. Plans in progress. Work contemplated.

County Prison, \$2,500,000. Opposite present Jail, Holmesburg, Pa. Site approved. Work contemplated. Owners, Department of City Property, Bureau of Prisons, City Hall.

Church, Summerdale road, opposite Summerdale School. Work contemplated. Owners, Summerdale Presbyterian Church, Summerdale, Pa. Site donated. 120x150 feet.

Stores, Torresdale and O street, Philadelphia. Plans in progress. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1424 South Penn Square, Philadelphia. Brick, 1 story.

Residences (20), Lorretto and Lansing streets, Philadelphia. Plans in progress. Architect, private plans. Owners, Castor Highland Development Co., Castor road and Hartel street. Brick, 2 stories, 16x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Store and Office Building, 9 South Sixteenth street, Philadelphia. Plans in progress. Will be ready for bids in two weeks. Architect, name withheld. Owners, John Ellis & Brother, 135 South Eleventh street, Philadelphia. Granite, limestone, fireproof, 2 stories, basement and mezzanine.

Store, 1527 South street. Also 1528 Rodman street, Philadelphia. Plans in progress. Paul Brosz, 2511 West Hunting Park avenue, Philadelphia, will figure. Architect, private plans. Owners, Joseph Kessler & Sons, 1413 South street, Philadelphia. Brick.

Garage and Stores (3), Pastorius, West of Green street, Philadelphia. Architect and owner taking sub-bids. Architect, Ralph L. Goldberg, 266 South Fifteenth street, Philadelphia. Owner, Irvin G. Schorsch, 3543 North Broad street, Philadelphia. Brick, steel, 1 story, 55x138 feet, slag roof, concrete and hardwood floors, vapor heat, electric light, rolled steel sash.

Residences (78), Walker and Montague, Cottman and St. Vincent streets, Philadelphia. Owner is taking sub-bids. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owner, M. A. Schwartz, 3015 Ridge avenue, Philadelphia. Stone, brick, 2 stories, 16x52 feet, slate and slag roof, hot water heat,

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Residences (18), \$85,000. 1300 block Englewood street, Cottman Park, Philadelphia. Owner will build and is taking sub-bids. Architect, private plans. Owner E. W. Schope, 630 Locust avenue, Philadelphia. Brick, 2 stories, 16x50 feet, slag and tile roof, hardwood floors, hot water heat, electric light, tile work.

Apartment House, City Line and Bryn Mawr avenue, Philadelphia. Architect taking sub-bids due April 24th. Architect, Lewis J. Cohen, Real Estate Trust Building, Philadelphia. Owners, Bobco Construction Co., care of architect. Brick, steel, stone, 4 stories, 143x60 feet, 36 apartments, slag roof, hardwood floors, elevators, door beds, kitchen equipment, vapor vacuum heat, electric light, tile and marble work, metal lath, wood sash, incinerators.

Apartment Building, \$430,000. Cobb's Creek Boulevard, Sixtieth and Edgewood streets, Philadelphia. Owner will build. Work to start in two weeks. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, John T. Sinnott, Jr., 838 South Fifty-fifth street, Philadelphia. Brick, 4 stories, 150x130 feet, 84 apartments, slag roof, garage, office, dining room, hardwood, rubber tile and linoleum floors, two elevators, hot water heat, oil burners, electric light, metal lath, tile and marble work, metal sash, Miracle doors, electric refrigeration, laundry equipment, incinerators.

Warehouse, \$100,000. Woodbine avenue and Upland Way, Philadelphia. Owners taking sub-bids on all items. Architect, J. B. Harman, 218 Fulton Bank Building, Lancaster, Pa. Owners, Raub Supply Co., Lloyd Neill, Superintendent of Works, West James and Mulberry streets, Lancaster, Pa. Brick, steel, concrete, 3 stories and basement, 175x110 feet, built-up roof, cement and maple floors, (3) elevators, roof ventilators, electric light, steel sash, waterproofing, dampproofing.

Apartment House, West Clapier street and Abbotsford road, Germantown, Philadelphia. Work contemplated. Architect not yet selected. Owner, Louis Lombardi, 203 Wister street, Philadelphia. Size of lot 100x360 feet.

Section of Stadium, Overbrook, Pa. Architect taking bids due April 26th, 10 A. M. Architect, Sigmund J. Laschenski, Harrison Building, Philadelphia. Owners, St. Joseph's College, Rev. W. T. Tallon, S. J., on premises. Reinforced concrete, 220x45 feet.

Ward A and J Extension to Conversation Hall, Holmesburg, Pa. Owners taking bids due April 23rd at noon. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Board of Inspectors, Philadelphia County Prisons, Tenth and Reed streets. Brick, granite, steel, 1 story and basement,

51x370 feet each, concrete and cement, demolition, excavation, hardware, integral waterproofing, cement floors, plastic bond, bluestone, limestone, alberne stone, tile, marble, terrazzo work, asphalt mastic floors, iron work, area gratings, skylights, iron fence, spring balanced steel windows, slag roof, carpentry and mill work, metal lath, plastering, acoustical treatment (plumbing, heating, electric work separate bids). Deposit, \$30; refund, \$20.

Mint (alts.), Seventeenth and Spring Garden streets, Philadelphia. Owners taking bids due April 29th. Architect, James A. Wetmore, United States Treasury Department, Washington, D. C. Owners, United States Mint, Seventeenth and Spring Garden streets, Philadelphia. Labor and material for furnishing and installing motor, generator, etc. Plans and specifications can be obtained at the United States Mint, Seventeenth and Spring Garden streets, Philadelphia.

Boiler Plant and Laundry, Fiftieth and Woodland avenue, Philadelphia. Architects taking bids due April 20th, 10 A. M. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Mercy Hospital, on premises. (Plumbing, heating, electric separate bids.)

Factory, Wayne avenue and Buckley street, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Architect taking bids due April 23rd at noon. Owners, Max Levy & Co., on premises. Brick, steel, 3 stories and basement.

Residences (58), \$189,000. Bouvier street, South of Medary avenue, Philadelphia. Permit issued. Owner, Joseph Cutler, 5918 North Broad street, Philadelphia. Brick, 2 stories, 15x25 feet, 11x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (33), \$132,000. South side Pike street, K to L streets, Philadelphia. Permit issued. Owner, Townsend B. Young, Northeast Title & Trust Company, Rhawn street and Summerdale avenue, Philadelphia. Brick, 2 stories, 15x27 feet, 11x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (28), \$128,000. Cutler street, East of Sixteenth street, Philadelphia. Permit issued. Owner, Joseph Cutler, 5918 North Broad street, Philadelphia. Brick, 2 stories, 15x36 feet, 12x15 feet, slag roof, pine and hardwood floors, hot water heat, electric light.

Contracts Nos. 196-217, Philadelphia. Owners taking bids due April 23rd. Owners, Department of City Transit, Fourteenth Floor, City Hall Annex. Deposit, \$10, refunded. Certified check, 5 per cent. No. 196—Furnish and plant trees. No. 217—Installing equipment and H. T. switch gear.

Residences (6), \$36,000. 937-45 Arrott

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street, Philadelphia. Permit issued. Architect, private plans. Owner, W. Robinson, Arrott and Oakland streets, Philadelphia. Brick, 2 stories, 19x27 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (6), \$27,000. Lawndale street, South of St. Vincent street, Philadelphia. Permit issued. Architect, private plans. Owners, Fischer & Smith, 402 Walter street, Philadelphia. Brick, 2 stories, 16x25 feet, 18x25 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Shop, 4657-59 James street, Philadelphia, \$2,000. Permit issued. Architect, private plans. Owners, Geiger & Son, on premises. Brick, 2 stories, 30x35 feet, slag roof, electric work.

Shed and Storage Building, \$18,000. North side Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Owners, Gulf Refining Co., Girard Point, Philadelphia. Steel and frame, 100x43 feet, storage building, steel, 1 story, 29x55 feet, 36x26 feet.

Stores and Apartments (12), Garages (12), \$56,000. West side Frankford avenue, North of Tudor street, Philadelphia. Permit issued. Owner, John Tucker, 4739 North Eighth street, Philadelphia. Brick, 2 stories, 16x56 feet, 1 story, 13x20 feet, hot water heating.

Apartment House (alts.), \$7,000. 3617 Locust street, Philadelphia. Permit issued. Architect, M. Marshall, 4515 Pennsgrove street, Philadelphia. Owner, Jack L. Lipshutz, on premises. General alterations.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Administration Buildings, Bridge over Delaware River, Tacony to Palmyra, N. J. Contract awarded Geo. Shaner & Son, Palmyra, N. J. Architect, Modjeski Masters Chase, 1420 Walnut street, Philadelphia. Owners, Tacony-Palmyra Bridge Co., care of architect. Brick, concrete, steel, concrete piles, excavation, reinforced concrete, master builders, waterproofing, concrete work, cement floors, cinder concrete blocks, royal ventilators, slag roof, iron work, metal lath, plastering, carpentry and millwork, terrazzo floors, linoleum, screens, metal shelving and lockers, plumbing, brass pipe, oil burners, electric work, office building, service building, 3 toll houses, switch and meter house.

Club House, Sixteenth and Locust streets, Philadelphia. Contract awarded F. V. Warren Co., 1913 Arch street, Philadelphia. Architect, Grant M. Simon, 1500 Walnut street, Philadelphia. Owners, University Club, Charles Tyler Cowperthwaite, 1510 Walnut street, Philadelphia. Reinforced concrete, brick, steel, 17 stories, 2 mezzanines and basement, 100x42 feet (plumbing, heating, refrigeration, ventilation, kitchen equipment reserved), caisson foundations, excavation, reinforced concrete, waterproofing (Anti-Hydro), rolled steel sash (Lupton's), cement floors, floor hardener (Master Builders), membrane waterproofing, dampproofing (Hydroseal), bluestone, hollow tile, gypsum blocks (U. S. Gypsum Co.), granite, limestone, iron work, area gratings (Blaw Knox or equal), iron stairs, carpentry, mill work, cabinet work, metal lath, plastering, marble work, tile

work, terrazzo, acoustical treatment, plastering, marble work, bronze or ornamental iron work, cork insulation, caulking (Ev-Air-Tight Co.), hardware allowance \$10,000, hollow metal doors, tin-clad doors, slag roof (Barrett), tile roof, elevators, weather stripping, dumb waiter, electric work.

School, Twenty-second and Clearfield streets, Philadelphia. Contract awarded Farrell & Co., Drexel Hill, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owners, St. Mary's Roman Catholic Church, Rev. F. Bernardo, on premises. Stone, brick, steel, 4 stories and basement, 140x68 feet (plumbing, heating reserved), bond, demolition, excavation, reinforced concrete, cement floors, granite and Mt. Airy (alternate), cast stone (Formigli or Economy, hollow tile, iron work, iron stairs, area gratings (Kerlow or equal), gypsum floors and roof slab, oak, pine and maple floors, linoleum (Armstrong or equal), metal lath, plastering, wall finish (Arvon), slate work, tile work, waterproofing (Hydroseal or Trusecon), Penetrite waterproofing, floor hardener (Hydroseal or equal), slag roof (Barrett specification), slate roof (John Emack gray slate), painting, glazing, metal casement sash, metal partitions (Sanimetal), kalamein doors, metal lockers and shelving, hardware allowance \$2,650.

Store and Office, 3217-41 Chestnut street, 3234-50 Woodland avenue, Philadelphia. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street. Architect, Frank E. Hahn, 629 Chestnut street, Philadelphia. Own-

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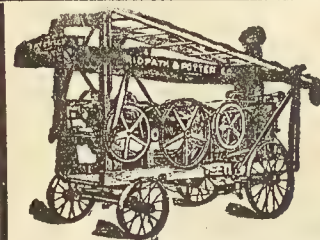
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ers, Blair, Inc., 5225 Chestnut street, Philadelphia. Brick, steel, architectural terra cotta, 2 stories and basement, 202x40 feet, 97x40 feet, excavation, reinforced concrete, brick work, waterproofing (Truseon, Aquabar or equal), cement floors, Straub cinder block, ornamental iron work, iron stairs, metal toilet stalls, metal lath, plastering, dampproofing (Hydrosel, Plyrite or equal), fireproof slag roof, tin-lined doors, metal skylights, roof ventilators, tile, marble and terrazzo work, maple floors, bulk windows (metal), caulking, painting, glazing, cold waterproofing (plumbing fixtures, linoleum not included).

Mill (add.), Northwest Corner Gillingham and Torresdale avenue, Philadelphia. Contract awarded George Kessler Contracting Co., 1733 North Marvine street. Architect, C. W. Wister, 1733 North Marvine street, Philadelphia. Owners, Whitehall Knitting Mills, Torresdale and Gillingham street. Brick, steel, granite, 3 stories and basement, 122x50 feet, slag roof, concrete and pine floors, elevators, sprinklers, cast stone, steel partitions, incinerators, steam heat, electric light, oil burners, rolled steel

sash, fire and kalamein doors, bond, iron stairs, area gratings.

Elevator Shaft and Stairway, Greene and Cheltenham avenue, Philadelphia. Contract awarded H. P. Schneider, 3713 Old York road, Philadelphia. Architect, R. W. McCaskey, Otis Building, Philadelphia. Owners, Goldner Brothers Motor Co., Greene and Cheltenham avenue, Philadelphia. Brick work, carpentry, mill work.

Hotel, Thirteenth and Locust streets, Philadelphia. Contract awarded Foundation Co., care of Mr. Mullen, Westbury Apartments, Fifteenth and Spruce streets, Philadelphia, who is taking sub-bids due April 16th. Architect, P. M. Julian, Washington, D. C. Owners, Syndicate, care of Nathan Taube, Eighteenth and Chestnut streets, Philadelphia. Brick, steel, limestone, 22 stories and basement, 70x100 feet, slag roof, oak and pine floors, steam heat, electric light, tile work, metal lath, ornamental iron work, architectural terra cotta.

Stores (2), 103-113 South Thirty-fourth street, Philadelphia. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owners, Blair, Inc., 5225 Chestnut street, Philadelphia. Brick, limestone, 1 story and basement, 18x95 feet each, slag roof, pine floors, plate glass, hot water heat, electric light, metal sash.

Residence, 1504 Fairmount avenue, Philadelphia. Contract awarded Richardson & Luce, 1524 Chestnut street. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, A. O. Thomas, 681 North Fifteenth street, Philadelphia. Brick, steel, 3 stories add., 17x23 feet (plumbing, heating, electric reserved), slag roof, oak and pine floors, cement work, plastering, painting, glazing, slag roof, oak, pine, metal lath, tile and marble.

Power House, Fifty-eighth and Lindbergh avenue, Philadelphia. Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia. Architect, private plans. Owners, Philadelphia Gas Works Co., 1401 Arch street, Philadelphia. Brick, steel, 1 story and basement, 6,300 square feet, irregular, steam heat, slag roof, cement floors, plumbing, ornamental iron work, metal doors, cast stone, metal partitions.

Coal Yard, Magnolia and Musgrave streets, Philadelphia. Contract awarded Fanning-Schuett Engineering Co., Third below Cayuga street. Architect, private plans. Owners, Reading Railroad, Twelfth and Market streets, Philadelphia. Shop and garage, 1 story,

117x46 feet, boiler room and office, 1 story, 26x28 feet.

Residence (alts.), 305 West Chestnut Hill avenue, Philadelphia. Contract awarded William J. Ryder, 1725 Sansom street, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Clement R. Wainwright, on premises. General alterations to grill room, paneling, carpentry.

Banking Building, 1423-25 Walnut street, Philadelphia. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia. Plans in progress. Architect, private plans. Lessees, Newburger, Henderson & Loeb, 1512 Walnut street. Brick, limestone, steel, 3 stories and basement, 38x100 feet, slag roof, cement floors.

Banking Quarters (alts.), Commercial Trust Building, Philadelphia. Contract awarded J. S. Cornell & Son, 1528 Cherry street. Architect, private plans. Owners, Cassatt & Co., Commercial Trust Building, Philadelphia. Plastering, painting, glazing, carpentry, mill work, linoleum.

Bank (alts.), \$5,000. 4420-22 Walnut street, Philadelphia. Contract awarded Metzger & Co., Otis Building, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Belmont Trust Co., Forty-fifth and Walnut streets, Philadelphia. General alterations.

Apartment House (alts.), \$17,000. 430-32 South Fortieth street, Philadelphia. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia. Owners, United States Bank & Trust Co., Fourth and Market streets, Philadelphia. General alterations.

Office, \$10,000. 432 Fairmount avenue, Philadelphia. Contract awarded A. B. MacGregor, 1628 Vine street, Philadelphia. Architect, private plans. Owners, H. K. Wampole & Co., on premises. Brick, 1 story, 35x30 feet, slag roof, electric light.

Service Buildings (2), \$4,000 total. Northwest Corner Sixty-third and Market streets, Philadelphia. Contract awarded George H. Evans, Inc., 1416 Vine street, Philadelphia. Architect, private plans. Owners, Sears-Roe-buck Co., on premises. Brick, 1 story, 14x14 feet.

Residence and Store (add.), \$2,500. 3231 Powelton avenue, Philadelphia. Contract awarded John Gallagher, 2616 Reed street, Philadelphia. Architect, private plans. Owner, Andrew Ward, 3231 Powelton avenue, Philadelphia. Brick, 1 story add., 17 feet 6 inches x 16 feet.

Storage Building (add. and alts.), \$2,500. Fifth and Luzerne streets, Philadelphia. Con-

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tract awarded William C. Wright & Son, 22 Harvey street, Philadelphia. Architect, private plans. Owners, Valvino Oil Co., Fifth and Luzerne streets, Philadelphia. Brick, 1 story add., 52x8 feet, general alterations.

Chimney, \$5,000. Southeast Corner Broad and Huntingdon streets, Philadelphia. Contract awarded Alphons Custodis Construction Co., 95 Nassau street, New York. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Radial brick, 6 feet 9 inches x 155 feet.

Garage (alts.), \$3,000. North side School Lane, West of Wissahickon avenue, Philadelphia. Contract awarded W. M. Thompson, 1920 Cherry street, Philadelphia. Owner, Mrs. L. C. Maderia, on premises. General alterations.

Residence and Store (add. and alts.), \$2,500. 2010-12 Sansom street, Philadelphia. Contract awarded Alfred E. Martin, 1207 Race street, Philadelphia. Owner, George Burton, East Wyndmoore and Ardmore avenues, Philadelphia. Brick, 1 story add., 27x20 feet, hot water heat, alterations.

Garage, 6630 McCallum street, Philadelphia, \$2,000. Contract awarded J. D. Fotheringham, 1000 Arrott street, Philadelphia. Owner, A. V. Di Villiers, on premises. Brick, 1 story, 18x20 feet, cement floors.

Garage and Help's Quarters, \$28,000. South side Northwestern avenue, East of Germantown avenue, Philadelphia. Contract awarded McCloskey Co., 1620 Thompson street, Philadelphia. Architect, Paul A. Monaghan, 1520 Locust street, Philadelphia. Owners, Sisters of St. Joseph, on premises.

Foundry (add.), \$19,000. East side Hellerman street, South of State road, Philadelphia. Contract awarded Austin Co., Jefferson Building, Philadelphia. Owners, Dodge Steel Corporation, on premises. Steel, frame, 1 story, 81x116 feet.

Residence, \$6,000. North side Unruh street, West of Bingham street, Philadelphia. Contract awarded A. J. Menchy, 553 Kerper street, Philadelphia. Architect, G. A. Rosenberg, 911 Oakley street, Philadelphia. Owner, Mary C. Menchey, 553 Kerper street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Miscellaneous Work, Philadelphia. Owners, Bureau of Highways, Department of Public Works, Philadelphia. Contracts awarded. Bleigh, Pennway, Doreas, Shelmire, etc., Marino Masse, 3936 North Reese street, Philadelphia, \$1,133.24. Milnor street, Church to Duncan, Joseph Cicone, 5732 Westminster avenue, \$379.17. Paving and repaving certain

alleys, Footway Paving Co., 236 North Twenty-third street, Philadelphia, \$12,335.95. Furnishing structural steel for Walnut Street Bridges, Montgomery Iron & Steele Co., 2500 Duncan street, \$18,376.60. Furnish and deliver ready-mixed concrete for bridge deck repairs, Charles Warner Co., 1518 Walnut street, Philadelphia, \$1,000. Renewal of pier fenders, Bridge No. 9, Passyunk avenue, Harry C. Eyre, 1212 North Delaware avenue, Philadelphia, \$10,090. Tioga, Salmon to Belgrade, Sabatini Vallone, 1720 South Chadwick street, \$18,425.61. Levick street, Torresdale to Philadelphia & Reading Railroad, A. Di Sandro & Son, 6400 North Fifth street, Philadelphia, \$31,079.50. Sanger, Tackawanna to Walker, Bitterio & Ventresco, 6016 Ross street, \$7,318.75. Hunting Park avenue, Schuylkill River to East of Ridge avenue, Thomas Burke & Co., Philadelphia, \$63,730.50. Sixty-seventh street, Schuylkill River to Eastwick avenue, Joseph & Robert Lombardi, Lincoln Building, \$361,646. Wissahickon Low Level Col. Sewer through Fairmount Park, from North of Township Line to Bell's Mill road, A. Di Sandro & Son, 6400 North Fifth street, Philadelphia, \$137,272. Sandy Run Intercepting Sewer, East of Ryan avenue, Garson & Garson, 1143 North Fifty-eighth street, Philadelphia, \$44,646. Northeast Sewage Treatment, force mains, etc., Vincent Jaffolla, Pennsylvania Building, \$38,615.

Coal Trestle, \$7,100, East side Magnolia street, north of Cheltenham avenue, Philadelphia. Contract awarded Fanning-Schuett Co., 4325 North 3rd street, Philadelphia. Owners, Reading Company, 12th and Market streets, Philadelphia. Permit issued.

Office, \$4,800, East side Magnolia street, North of Cheltenham avenue, Philadelphia. Contract awarded Fanning-Schuett Co., 4325 N. 3rd street, Philadelphia. Owners, Reading Co., 12th and Market streets, Philadelphia. Brick, 1 story, 26x28 feet. Permit issued.

Garage, \$2,200, 76 East Logan street, Philadelphia. Contract awarded Louis Lombardi, 203 East Wister street, Philadelphia. Architect, Private plans. Owner, H. E. Cassell, on premises. Brick, 1 story, 38x18 feet, slag roof, cement floors.

Pennsylvania Construction News

Hotel, near Fleetwood, Pa. Preliminary plans in progress. Architect, Wayne M. High, 230 North Sixth street, Reading, Pa. Owner, Mr. Leibelsperger, Fleetwood Bank, Fleetwood, Pa.

Oil Station, Fourth and Franklin streets, Reading, Pa. Plans in progress. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Blue Seal Oil Co., 730 Windsor street, Reading, Pa. Cinder block and stucco, 1 story, 22x40 feet, composition roof, concrete floors, electric light.

Residence, Ephrata, Pa. Plans in progress. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, name withheld. Cinder block, stucco, 2 stories and basement, 26x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

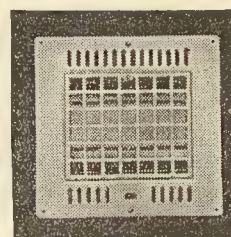
Garage, Ephrata, Pa. Plans in progress. Owners will build. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Ephrata Motor Co., Ephrata, Pa. Cinder block, steel, 1 story, 42x125 feet, composition roof, concrete floors, electric light, steel sash.

Residences (6), Villa Nova, Pa. Work contemplated. Tentative plans drawn. Owners, Lower Merion Realty Co., Land Title Building, Philadelphia. Stone, various sizes, 3- or 4-acre tracts.

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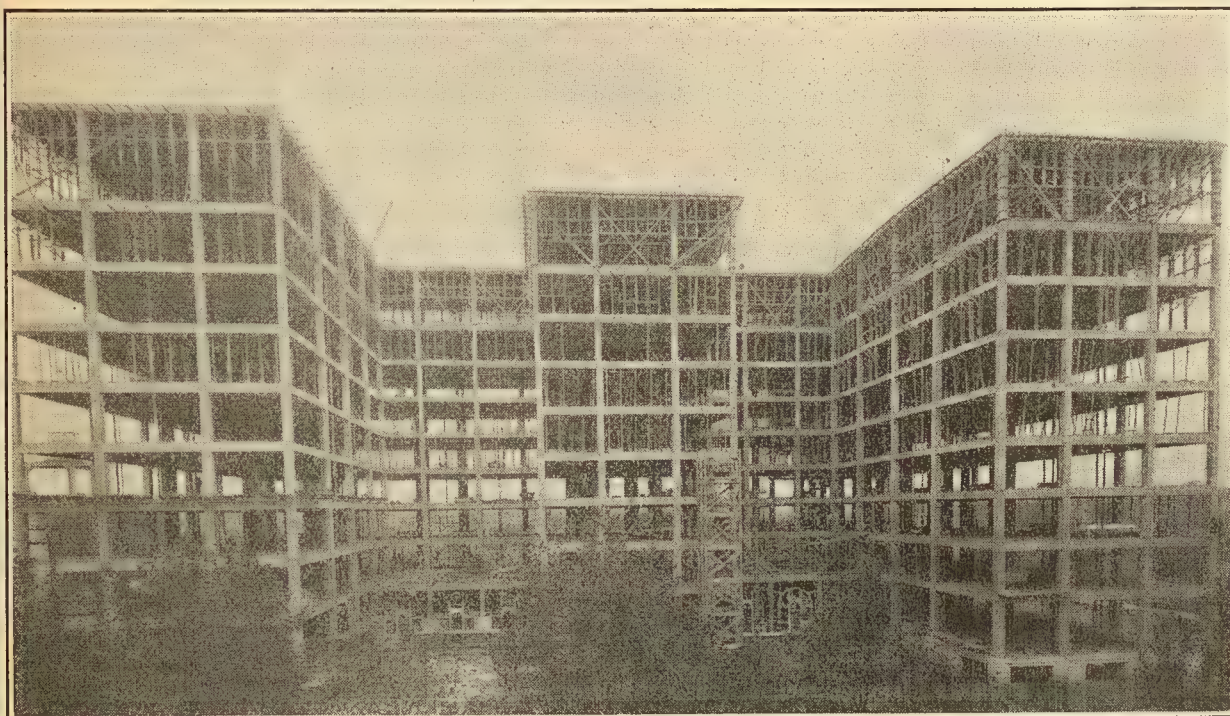
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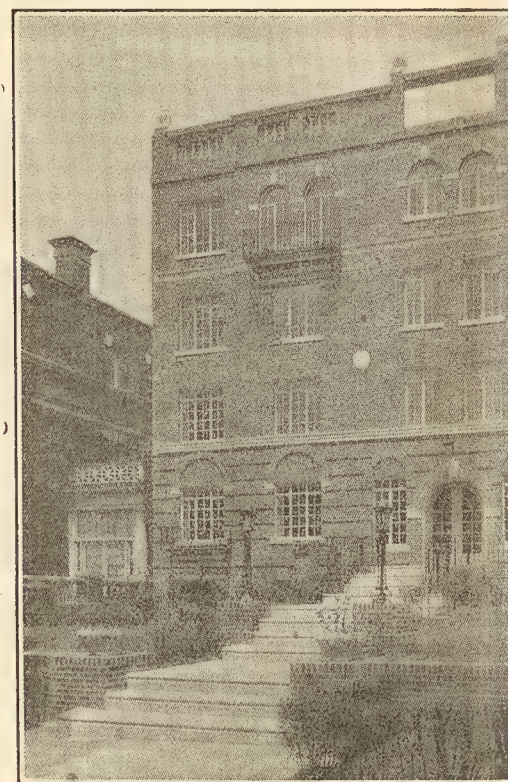
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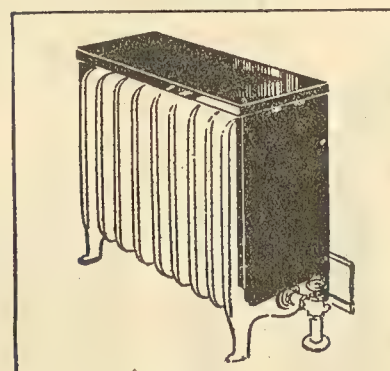
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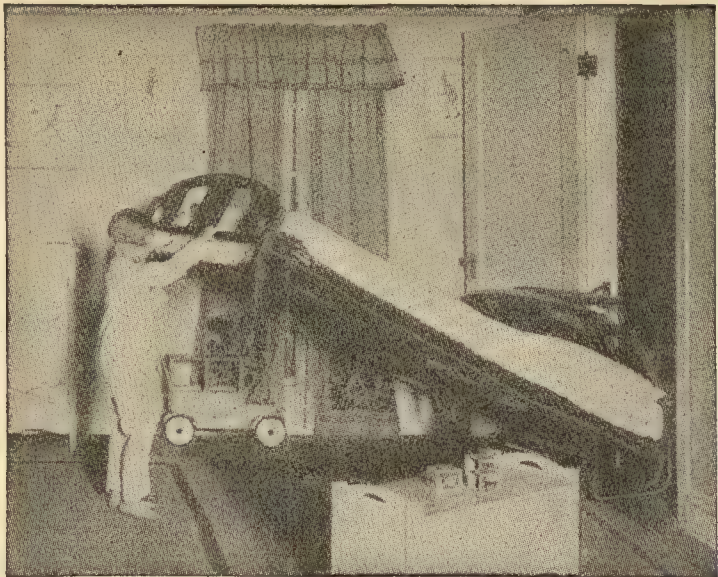
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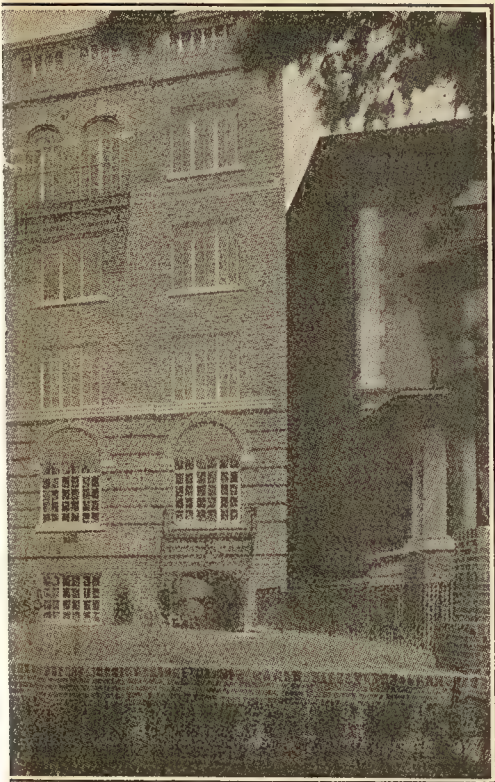
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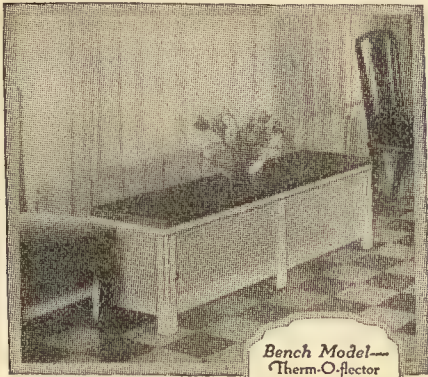
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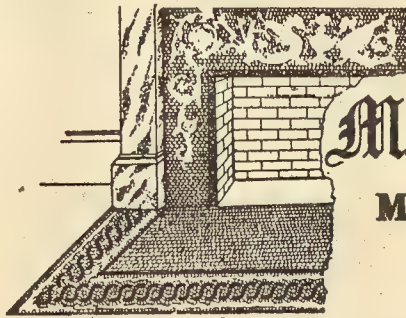
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Y. W. C. A., \$50,000, Coatesville, Pa. Preliminary sketches in progress. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owners, Y. W. C. A., care of Miss May Penman, Coatesville, Pa. Brick, 3 stories and basement, 80x80 feet, assembly hall, office, etc.

Residence, Southwest Corner Church road and Sandy Hill road, Laverock, Pa. Preliminary sketches being prepared. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, T. Bromley Flood, Broad and Venango streets, Philadelphia. Stone, 2½ stories, 11-acre tract.

Store and Office (alts. and add.), 20½ North Queen street, Lancaster, Pa. Plans in progress. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, B. W. Shaub, 445 College avenue, Lancaster, Pa. Stone front, brick work, 3 stories, 30x40 feet, composition roof, linoleum and hardwood floors, heating extension, electric work, tile, marble, casement windows, bronze work.

Store Front, Lancaster, Pa. Plans in progress. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Hoffmeier Brothers, 40 East King street, Lancaster, Pa. Brick, 1 story, plate glass, hardwood floors, tile, marble, bronze.

Residence and Garage, Collingdale, Pa. Plans completed. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, name withheld. Brick, frame, 2½ stories, 24x36 feet, 10x20 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Arts and History School, Valley Forge, Pa. Work contemplated. Tract accepted. Owners, University of Pennsylvania, C. Wharton Pepper, chairman, Thirty-fourth and Spruce streets, Philadelphia.

Residence, Ogden and Guernsey roads, Swarthmore, Pa. Work contemplated. Owner, Dr. Charles A. Rankin, 1924 Chestnut street, Philadelphia.

Theatre, Stores (6) and Apartment, Erie, Pa. Revised plans in progress. Architects will take bids in a week. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Warner Brothers, Real Estate Department, 321 West Forty-fourth street, New York.

Apartment (alts. and add.), Chester pike, Collingdale, Pa. Owner ready for sub-bids. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owner, Milton L. Staley, Darby Trust Building, Darby, Pa. Brick, concrete, brick, 3 stories, 30x30 feet, 6 family apartments, slag roof, hardwood floor, electric light, tile work, fire doors.

Fire House, Berwyn, Pa. Owners taking bids due April 30th, 7 P. M. Architect, John B. Thomson, 1321 Arch street, Philadelphia. Owners, Berwyn Fire Co., No. 1, J. E. Stumpf, Knox avenue, Berwyn, Pa. Brick, cast stone, steel, 2 stories and basement, 80x40 feet, bond, excavation, stone masonry, concrete work, floor hardener, concrete block, iron work, iron gratings, steel sash, asbestos shingle roof, metal ceilings, metal lath, plastering, dumb waiter, carpentry, mill work, maple floor, painting, glazing, hardware, plumbing, hot water heat, electric light.

Parochial School, Yeadon, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owners, St. Louis' Roman Catholic Church, Rev. T. J. Burke, Yeadon, Pa. Architects taking bids due April 20th. Plumbing, heating, electric, ventilating separate bids.

Seminary, within twenty miles of Philadelphia. Work contemplated. Owners, Mt. Airy, Gettysburg and Susquehanna Theological Seminary, Dr. John Aberly, president of Gettysburg Seminary. Merger to take effect in 1931. Site not yet selected. Work contemplated for joint seminary.

Central Heating Plant, etc., Media, Pa. Owners taking bids due April 30th, 10.30 A. M. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, George T. Wades, Media, Pa. Brick, 2 stories, 85x130 feet, 2 stories, 50x75 feet, concrete built-up asbestos roof, warden's residence (alts. and add.), brick, 2½ stories, 15x30 feet, slate roof, tunnel connecting garage, jail. Deposit, \$10, refunded. General construction bids separate on each building. Plumbing, heating, electric joint bids.

Store and Apartment, Ardmore, Pa. Architects taking bids due April 19th. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1420 South Penn Square, Philadelphia. Brick, 3 stories, 16x45 feet, slag roof, hardwood floors, electric light.

Administration Building, Penhurst, Chester County, Pa. President taking bids due April 24th at noon. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Penhurst State School, J. Hibbs Buckman, 1104 Plaza Trust Building, Philadelphia. Plumbing, electric separate bids. Certified check, 5 per cent. of the bid. Metal lath, plastering, painting, glazing, hardware, carpentry, mill work, hollow tile, cement work.

Residence, Rydal, Pa. Architect taking bids due April 19th. Architect, Samuel W. Marshall, 1524 Chestnut street, Philadelphia. Owner, John K. Hoyle, 1324 Walnut street, Philadelphia. Stone, steel, 2½ stories and basement, irregular (plumbing, heating, tile, electric reserved), shingle roof, oak and pine floors, ornamental iron work.

School, Collingdale, Pa. Owners taking bids due April 27th. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, School Board, W. H. Milbourne, Collingdale, Pa. Brick, 2 stories.

Residence and Garage, Southeast Corner DeKalb and Ellis streets, Norristown, Pa. Architect taking bids due April 19th. Architect, G. Edward Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Mrs. Dorothy E. Copp, care of architect.

Church, Columbia, Pa. Architects taking bids due April 30th. Architects, Leber & Hatton, Hay Building, York, Pa. Owners, Salome United Brethren Church, Rev. A. L. Haeseler, Columbia, Pa. Brick, 1 story and basement, 80x80 feet, slate roof, maple floors, vapor heat, electric light.

Rectory (alts. and add.), Narberth, Pa. Architects taking bids due April 19th. Ar-

chitects, Stackhouse & Donohoe, 266 South Fifteenth street, Philadelphia. Owners, St. Margaret's Roman Catholic Church, Narberth, Pa.

Church, York, Pa. Architects taking bids due April 25th. Architects, Witman & Royer, 36 East Market street, York, Pa. Owners, St. Peter's Lutheran Church, Rev. James H. Goss, 946 North George street, York, Pa. Brick, stone, steel, 1 and 2 stories, 78x103 feet, slate roof, maple floors, vapor heat, electric work, rolling curtains.

Church and Sunday School, Narberth, Pa. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owners, Narberth Methodist Episcopal Church, Rev. S. McAdams, Narberth, Pa. Architect taking revised bids due April 24th.

Buildings (4), Easton, Pa. Architects taking bids due April 25th at noon. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Easton Hospital, H. Lehr, president, 1200 Butler street, Easton, Pa. Hospital, nurses' home, power house, laundry and garage, isolation building.

Science Building, Reading, Pa. Architects will be ready for bids at end of week. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Schuylkill College, Rev. W. T. Tell, president, Thirteenth and Exeter streets, Reading, Pa. Stone, steel, 2 stories, 120x57 feet, 21x29 feet, slate roof, wood and composition floors, roof ventilators, electric light, tile and marble, steel sash and skylights, fire doors.

School, Friedensburg, Pa. Owners will be ready for bids next week. Architects, Scholl & Richardson, 510 Walnut street, Reading, Pa. Owners, Oley Township School Board, Isaac S. Rothenberger, Limekiln, Pa. Brick, steel, 2 stories and basement, 134x150 feet, maple floors, safety treads, roof ventilators (heating, plumbing and electric work separate), metal lath, steel sash, bond.

Grade and High School, Womelsdorf, Pa. Owners will be ready for bids April 27th. Architect, Wayne M. High, 230 North Sixth street, Reading, Pa. Owners, Womelsdorf School District, Dr. L. L. Livingood, president, Womelsdorf, Pa. Brick, steel, 2 stories and basement, 111x95 feet, built-up roof, maple floors, safety treads, roof ventilators, waterproofing and dampproofing, cinder concrete block, bronze work, wrought iron pipe, iron stairs, fire doors (heating, plumbing and electric separate).

High School, Cressona, Pa. Owners will be ready for revised bids next week. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Board of Education, Dr. J. C. Gray, president, Cressona, Pa. Fireproof, 1 story, 114x83 feet, Carey roof, maple floors, hollow tile, safety treads, waterproofing and dampproofing, iron stairs, fire doors, tile work, steel sash, bond.

Consolidated School, Duncannon, Pa. Owners will be ready for bids in a few days, due April 27th. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Penn Township School Board, J. G. Mutzabaugh, Duncannon, Pa. Brick, 1 story and basement, 120x60 feet, Barrett roof, yellow pine and oak floors, roof ventilators (heating, plumbing and electric separate), metal lath, bond.

Mayfield Hall (alts.), Thornbrook and Montgomery avenues, Rosemont, Pa. John McShain, Inc., 1610 North street, Philadelphia, taking sub-bids. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Rosemont College, Rosemont, Pa. Excavation, stone work, brick work, steel sash, plastering, painting, glazing, iron work, slate roof, copper cornices, carpentry and mill work, concrete work. Sub-bids due as soon as possible.

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Store and Apartment (alts.), Old Lancaster pike and City Line, Bala, Pa. A. L. Fretz, Heed Building, is building. Architect, Harry Gordon McMurtrie, 1321 Arch street, Philadelphia. Owner, John R. K. Scott, Lincoln Building, Philadelphia. Plumbing, drainage, carpentry and mill work, skylights, painting, glazing, plastering, brick work, hollow tile, incinerators.

Residence and Garages (2), \$40,000. Drexel Park, Pa. Owner will build. Work to start soon. Owner, William Charlton, Llanerch, Pa. Stone, frame, stucco, 2½ stories, 27x38 feet, shingle roof, hardwood floors, hot water heat, electric light, oil burners, tile work.

Apartment House, Haverford, Pa. Architects will build. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Haverford Court, E. E. Cullen, 1524 Chestnut street, Philadelphia. Brick, steel, Indiana limestone, 4 stories, 72x54 feet, slag roof, linoleum oak floors, electric elevators, metal weather strip, waterproofing, metal lath, tile and marble work, rolled steel sash, hollow metal sash and skylights, tin and kalamain doors, ornamental iron work, incinerators.

Residences and Garages (18), Dorset and Haverford roads, Overbrook Hills in Merion, Pa. Owners ready for sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, McWilliams & Maloney, Overbrook Hills in Merion, Pa. Stone and frame, 2½ stories, 17x42 feet, 18x18 feet, creodipt shingle roof, hardwood floors, central heat, electric light, tile work.

Factory, Lancaster, Pa. Architect will be ready for bids next week. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, S. B. Lawrence Co., care of architect. Brick, steel, 3 stories, 100x150 feet, composition roof, concrete floors, roof ventilators, fire doors, steel sash, electric work.

Office, Lititz, Pa. Architect will be ready for bids in one week. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Animal Trap Company of America, Lititz, Pa. Fireproof, 3 stories, 35x80 feet, built-up roof, linoleum floors, roof ventilators, electric work, tile, marble, steel sash.

Jackson School (add.), York, Pa. Owners will be ready for bids about April 22nd. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, York School Board, David N. Crider, secretary, King and Cherry streets, York, Pa. Brick, steel, 2 stories, 77x67 feet, built-up roof, maple floors, hollow tile, roof ventilators, waterproofing and dampproofing, architectural terra cotta, kalamain doors, metal lath, tile (heating, plumbing and electric separate).

Apartment House, Montgomery avenue, Bryn Mawr, Pa. Robert J. Darrah, Widener Building, Philadelphia, taking bids due April 22nd. Architect, Richard R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 2 stories, irregular in size, slag roof, hardwood floors, electric light, tile work. Bidders: Robbins Contracting Co., 1137 North Front street, Philadelphia.

School (add.), Seventh and Ford streets, Bridgeport, Pa. Low bidders. Architects, H. Rex Stackhouse & W. W. Donohoe, 286 South Fifteenth street, Philadelphia. Owners, School Board of Education, J. C. Mulroy, Bridgeport, Pa. Low bidders: F. R. Heavner, Norristown, Pa.; A. J. Kinsella, Norristown, Pa.; McCormick-Lenham, Fortieth and Chestnut streets, Philadelphia. Three lowest bidders with alternates. Electric, low bidder, Warren L. Lyle, Brookline, Pa., \$656. Heating awarded American Heating & Ventilating Co., Schaff Building, Philadelphia, \$2,970. Plumbing, J. Frank Boyer, Norristown, Pa. (Contract awarded.)

Bridge, Wrightsville to Columbia, Pa. Low bidders. Engineer, J. B. Long, Boyer Arcade,

Norristown, Pa. Owners, Lancaster County, C. A. Passmore, Lancaster, Pa.; York County, W. E. Weiley, York, Pa. Low bidders: Waley-Maxson Construction Co., Dayton, O., \$2,484,000; Seeds & Derham, 25 Maplewood street, Philadelphia, \$2,538,711.

Paving, Borough of Aldan, Pa. Owners taking bids due April 19th, 8 P. M. Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Aldan, R. E. Kraber, secretary, Aldan, Pa. Certified check, 10 per cent.

Bridge, Belmont avenue, over Rockhill Creek, and **Widening Bridge,** Greenwood avenue, over Tacony Creek, near Jenkintown Station. Owners taking bids due April 26th at 10 A. M. (Eastern Standard Time). Certified check. Owners, Montgomery County Commissioners, W. C. Irwin, Controller, Court House, Norristown, Pa.

Paving, Borough of Rockledge, Pa. Owners taking bids due April 25th, at 9 P. M. (Eastern Standard Time). Engineers, Albright & Mebus, 112 South Easton road, Glenside, Pa. Owners, Highway Committee of the Borough of Rockledge, George W. Bluett, secretary, Fire House, Rockledge. Constructing new penetration macadam or other type of bituminous concrete paving and the resurfacing of various streets in the borough and work incidental thereto. Certified check, 5 per cent. Deposit, \$10; refund, \$5.

Consolidated High School, Sellersville-Perkasie, Pa. Architect, E. Wm. Martin, DuPont Building, Wilmington, Del. Owners, Joint School Board of Sellersville and Perkasie, Mahlon Keller, Secretary, 8 North 7th street, Perkasie, Pa. Brick, limestone, steel, 2 stories and basement, 131x128 feet, wing 40x64 feet, bond, excavation, waterproofing, cinder concrete block, reinforced concrete, cement floors, safety treads, metal window guards, iron work, iron stairs, pine and maple floors, ash joists, metal lath, plastering, painting, glazing, Barrett roof, steel skylights, slate, metal partitions, steel sash, hardware. Low bidders: Jones-Redditt Co., McClatchey Bldg., Upper Darby, Pa., \$94,000; W. R. Funk & Co., Commerce Building, Altoona, Pa., \$95,000. Heating and Ventilating: Baldwin Vent. Co., 1509 Arch street, \$26,140. Plumbing: J. M. O'Donnell Co., Quakertown, Pa. Electric: O. W. Lynch, 5743 Ogontz avenue, Philadelphia.

Technical School (add.), Scranton, Pa. Architect, A. J. Ward, 516 Spruce street, Scranton, Pa. Owners, Scranton School Board, Frank Magovern, Pres., 425 North Washington street, Scranton, Pa. Brick, fireproof, 5 and 4 stories, 250x142 feet, built-up roof, maple floors, hollow tile, safety treads, roof

ventilators, metal window guards, water and dampproofing, acoustical treatment, flagstone, ornamental iron, casement windows, fire doors, iron stairs. Low bidders: General: Breig Bros., Scranton Real Estate Bldg., Scranton. Plumbing: Jos. A. Hawley, 617 Spruce street, Scranton. Heating: H. N. Gardner, 920 Green Ridge, Scranton. Electric: John C. Koval, Scranton. Elevator: Otis Elevator Co., 219 Linden street, Scranton.

Sewer, Norristown, Pa. Owner taking bids due May 1st at noon (D. S. T.). Engineer, Borough Engineer, Norristown, Pa. Owners, Borough of Norristown, F. Lester Smith, Norristown, Pa. Certified check, 5%. Bond, 80%. Approximately 665 feet 8-in vit. pipe sewer, flush tanks, manholes, Y's, L's, laterals, branch pipe.

Sanitary Sewer, Upper Darby, Pa. Owner Darby, Pa. Owners taking bids due May 7th 7 P. M. (D. S. T.) Owners, Township Committee, T. C. Kelly, Upper Darby, Pa. Engineers, Damon & Foster, Sharon Hill, Pa. 15 and 18-inch sanitary sewers. Roberts avenue from Burmont to Dermond avenue. Dermond avenue from Roberts to Wilde avenue.

Office Building, Eddystone, Pa. Preliminary Sketches in progress. Architects, Simon & Simon, Fidelity Phila. Trust Bldg., Phila. Owners, General Steel Castings Co., R. P. Lamont, Pres., A. F. Bladgon, Vice-Pres. and General Superintendent, Eddystone, Pa. Brick, steel, stone, size and stories not decided.

Road Work, Pennsylvania. Owners, State Highway Department, James L. Stuart, Secretary, Harrisburg. Low bidders:

Cambria Co., R-276, Section 10, Viaduct. One course reinforced concrete. A. & J. P. Fogel, Hollidaysburg, Pa., \$88,603.04.

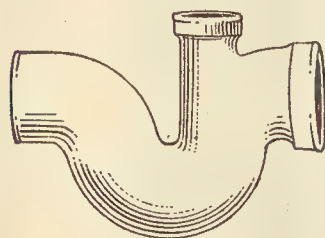
Lawrence Co., R-80, Neshannock Township. One course reinforced concrete. McDermott Construction Co., Niles, O., \$77,202.80.

Northumberland Co., R-18, Sec. 7, Point Township. One course reinforced concrete. Swanger-Fackler Const. Co., Lancaster, Pa., \$89,728.02.

Beaver Co., R-243, Sec. 1AA, Borough Township. One course reinforced concrete. Rinehart Bros., E. Liverpool, O., \$15,100.35.

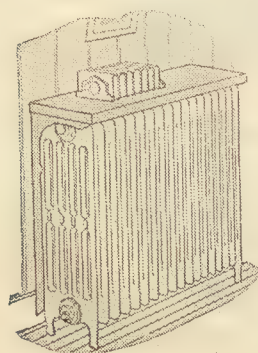
Schuylkill Co., R-718, Ashland Borough, Butler Township. One course reinforced concrete. Kulpmont Const. Co., Kulpmont, Pa., \$54,989.00.

Forest Co., R-93, S-4, Tionesta Borough and Township. One course reinforced concrete. Kirkpatrick-Wallis Co., Johnsonburg, Pa., \$116,200.95.



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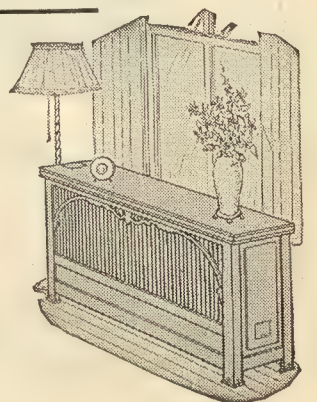
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Pike Co., A05782, Delaware Township. Bituminous treated macadam surface course. Burgess Bros. & Henry, Fork Union, Pa., \$53,705.50.

Erie Co., R-88, A-5923, Mill Creek and Green Townships. One course reinforced concrete. Chas. H. Fry Const. Co., Erie, Pa., \$93,443.79.

Armstrong Co., R-188, A-5779, Kiskiminetas Township. One course reinforced concrete. A. B. Rothey, Elizabeth, Pa., \$43,529.79.

Westmoreland Co., R-117, Sec. 3, Hempfield Township, S. Greensburg and S. West Greensburg Boroughs. One course reinforced concrete. D. C. Shirey & Son, Youngstown, Pa., \$157,438.52.

Lycoming Co., R-303, A-5491, 5817, Muncy Creek Township. One course reinforced concrete, grading and drainage. Standard Const. Co., Altoona, Pa., \$83,100.10.

Lancaster Co., R-527, A-5580, Colerain Township. Bituminous treated macadam surface course. Yok Eng. & Const. Co., York, Pa., \$104,268.08.

Beaver Co., R-77, Sec. 4, College Hill Borough. Vitrified brick pavement on concrete base. Millar & Billock, Youngstown O., \$75,458.94.

Northumberland Co., R-18, Milton Borough. One course reinforced concrete. Harry L. Moore, Newberry, Pa., \$23,584.55.

Adams Co., R-126, Straban, Mt. Pleasant and Oxford Townships, New Oxford Borough. One course reinforced concrete. Paul R. Hostetter Co., Inc., York, Pa., \$183,967.34.

Allegheny Co., Viaduct, Robinson and Moon Townships over Montour R. R. and Montour Run. Rust Eng. Co., Pittsburgh, Pa., \$86,643.85.

Lebanon Co., R-141, B-140, E. Union Township. One course reinforced concrete. D. L. Risser, Lebanon, Pa., \$217,549.59.

Montgomery Co., R-143, Upper Merion Township, Bridgeport Borough. One course reinforced concrete. Golden Const. Co., Otis Bldg., Phila., Pa., \$141,192.77.

Potter Co., R-236, A-5574, 5380, Habron Township. Bituminous surface treated macadam. Lord & Quigley, Millerstown, Pa., \$48,917.02.

Chester Co., R-201, Schuylkill Township. One course reinforced concrete. Suburban Const. Co., Ardmore, Pa., \$18,439.60.

Columbia Co., R-183, A-5078-A, Locust Township. One course reinforced concrete. Colonial Const. Co., Pittsburgh, Pa., \$85,095.32.

Pennsylvania Contracts Awarded

Laundry Building, Laurelton, Pa. Contracts awarded. Architect, George S. Idell, 1512 Chestnut street, Philadelphia. Owners, Laurelton State Village, Laurelton, Pa. Stone, limestone, steel, 1 story, 177x95 feet (plumbing, heating, electric separate), bond, excavation, terra cotta, tile, Master Builders' floor hardener, steel sash (Fenesta or equal), screens, cork insulation, built-up asbestos roof (John Manville, Carey or equal), galvanized iron, ventilating, skylights, metal lath, plastering, carpentry and mill work, painting, glazing, hardware, built roof, cement floors. General to D. R. Pursley, Laurelton, Pa., \$89,000. Plumbing and heating, B. O. Daubert, Hartleton, Pa. Electric, F. P. Edwards, Bloomsburg, Pa.

Garage and Chauffeur's Quarters, Bryn Mawr, Pa. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia. Architects, Addison Mizner, Inc., Palm Beach, Fla. Owner, Percival E. Foerderer, on premises. Stone, hollow tile, stucco, steel, 2½ stories and basement, 30x80 feet, tile roof, oak, pine and cement floors, hollow tile, screens, painting, glazing, metal weather strip, plumbing, waterproofing, hot water heat, electric light, tile work, metal lath, ornamental iron work, overhead doors.

Residence (alts. and add.), Edgemont, Pa. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia. Architect, R. B. Okie, 306 South Smedley street, Philadelphia. Owner, Frank Mauran, Liberty Building, Philadelphia. Stone, 2½ stories and basement, 34x25 feet, 49x21 feet, excavation, flagstone, oak and pine floors, carpentry and mill work, coldproofing, soundproofing, metal lath, plastering, screens and weather stripping, painting, glazing, electric work, plumbig, shingle roof.

Central Office Building, Southeast Corner Market and Walnut streets, West Chester, Pa.

Contract awarded Franklin M. Harris, 1520 Parrish street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, Nineteenth and Arch streets, Philadelphia. Brick, limestone, steel, 2 stories and basement, 81x48 feet, excavation, bond, reinforced concrete, demolition, bluestone, hollow tile work, iron gratings, copper covered doors, slag roof (Barrett or equal), metal lath, plastering, marble, tile and terrazzo work, painting, glazing, hardware, plumbing, copper pipe, steam heat, electric work.

Dormitory, Reading, Pa. Contract awarded L. H. Focht & Son, Baer Building, Reading, Pa. Electric to Keystone Engineering Co., 335 Walnut street, Reading, Pa. Plumbing to S. E. Fritz, Fourth and Elm streets, Reading, Pa. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Albright College, care of architect. Brick, steel, fireproof, 3 stories and basement, 117x70 feet, 19x24 feet, slate roof, concrete floors, hollow tile, metal lath, tile.

High School, Lancaster, Pa. Contract awarded Fred De Groot, 269 Peffer street, Harrisburg, Pa. Architect, E. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, care of Rt. Rev. P. R. McDevitt, 111 State street, Harrisburg, and Rev. H. S. Christ, 440 St. Joseph street, Lancaster, Pa. Fireproof, 2 stories and basement, 85,220 feet, composition roof, maple floors, roof ventilators, hollow tile, safety treads, metal lath, steel sash.

Residence No. 14, Hunting Valley Country Club Tract, Pa. Contract awarded Roy Randall, Jenkintown, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Elkins-Sheble Co., Elkins Park, Pa. Stone, 2½ stories and basement, 80x40 feet, slate roof, oak and pine floors, tile work, ornamental iron work (plumbing, heating, electric reserved).

Manufacturing Building, New Holland, Lancaster County, Pa. Contract awarded E. H. Focht & Son, Baer Building, Reading, Pa. Engineers, William Steele & Sons Co., 124 North Fifteenth street, Philadelphia. Owners, Vanity Fair Silk Mills, New Holland, Pa. Brick, concrete, 1 story, 121x105 feet, slag roof, cement floors, rolled steel sash, kalamein doors, floor hardener, ornamental iron work, saw-tooth skylights, metal toilet partitions.

Residence (alts. and add.), Mechanics Valley, Pa. Contract awarded Charles Gilmore, Buckingham, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Webster S. Archey, Doylestown, Pa. Hollow tile, stucco, 2 stories, 20x20 feet, asbestos shingle roof, pine floors, hot water heat, electric light.

Fire House (alts.), \$5,000. DeKalb and Chestnut streets, Norristown, Pa. Contracts awarded. Owners, Norris Hose Co., on premises. Cement floors and walks, new doors. Cement work to T. V. Smith Co., Norristown, Pa. Doors to R. F. Houghton, Norristown, Pa.

Residence and Garage, Drexel Park, Pa. Contract awarded W. L. Davenport, Llanerch, Pa. Architect, Harold Edward Williams, Drexel Park, Pa. Owner, Charles H. Stonerof, Upper Darby, Pa. Stone, frame, 2½ stories, 32x53 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Residence (alts.), \$10,000. Bluebell, Pa. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia. Architect, George A. Robbins, Otis Building, Philadelphia. Owner, J. Andrew Harris, 3rd, Packard Building, Philadelphia. Carpentry and mill work, plastering, plumbing, electric work, general interior alterations.

Dairy Building, 10 East Athens avenue, Ardmore, Pa. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street. Architects, Stuckert Co., 1600 Arch street, Philadelphia. Owners, Scott-Powell, Forty-fifth



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and Parrish streets, Philadelphia. Reinforced concrete, brick, steel, cement floors.

Residence (alts.), Wyncote, Pa. Contract awarded F. G. Stewart, 1520 Locust street, Philadelphia. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owner, Roy A. Heymann, on premises. General interior alterations.

Church and Sunday School, Harrisburg, Pa. Contract awarded W. E. Bushey, Lemoyne, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Olivet Presbyterian Church, Rev. S. A. Bower, 1926 Bellevue road, Harrisburg, Pa. Stone or brick, structural steel, 2½ stories, 102x88 feet, yellow pine floors, oak floors, waterproofing, cast stone, cinder concrete block, electric light.

School, Lawnton, Pa. Contract awarded H. B. Alexander, Paxtang, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Swatara Township School District, J. M. Erb, secretary, Lawnton, Pa. Two-room school.

Residence, Womelsdorf, Pa. Contract awarded Glenside Construction Co., Glenside, Berks County, Pa. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owner, Jacob H. Mays, Womelsdorf, Pa. Stone, 2½ stories, 61x31 feet, shingle roof, maple floors, hot water heat, tile work (heating, plumbing and electric reserved). Note correction.

Residence, Wyncote, Pa. Contract awarded Stewart Brothers, 2526 North Orkney street, Philadelphia. Architect, private plans. Owner, Lawrence E. Pierson, care of builder. Cinder block, stucco, frame, 2½ stories and basement, 50x45 feet, slate roof, pine and oak floors, hot water heat, electric light, tile work.

Residence, near Kenneth Square, Pa. Contract awarded Panell Brothers, Avondale, Pa. Owner, Nichola Mattescio, Kenneth Square, Pa. Stone, 2½ stories, 26x38 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Garage, Media, Pa. Contract awarded Clark & Harvey, Packard Building, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, George Butler, Media, Pa. Stone, 1½ stories and basement, 22x17 feet, shingle roof, cement floors, electric light, ornamental iron work.

Residence and Garage, Mount Holyoke Place, Swarthmore, Pa. Contract awarded to Clark & Harvey, Packard Building, Philadelphia. Hollow tile, stucco, 2½ stories, 39x34 feet, shingle roof, hot air heat, electric light, tile and marble work.

School, Dallastown, Pa. Contracts awarded. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Dallastown School Board, W. J. Taylor, secretary, Dallastown, Pa. Brick, 2 stories, 128x120 feet, composition roof, maple floors. General contractor, C. F. Deller, Dallastown, Pa. Plumbing, G. Heister, Dallastown, Pa. Heating, Elmer Blum, 1510 West Market street, York, Pa. Electric, Landis Electric Co., Red Lion, Pa.

Freight Depot and Office, York, Pa. Contract awarded C. F. Deller, 341 East Main street, Dallastown, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, York Motor Express Co., Lester Reider, 31 East Boundary avenue, York, Pa. Brick, steel, 1 story, 80x75 feet, asphalt roof, concrete and maple floors, roof ventilators, metal window guards, waterproofing and damp-proofing, steel sash, steam heat, electric light.

Apartment Houses (2), Lansdowne and Dudley avenues, Lansdowne, Pa. Contract awarded H. H. Conway, 5800 Walnut street, Philadelphia. Architect, William Macy Stanton, Land Title Building, Philadelphia. Owner, Mrs. Jane V. Eaton, Lansdowne, Pa. Brick, steel, 3 stories and basement, 55x152 feet,

slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work.

Ice Plant, Holmes, Pa. Contract awarded William F. Koelle & Co., 1633 Race street. Architect, private plans. Owners, Delco Ice Manufacturing Co., 1850 South Fifty-fourth street, Philadelphia. Brick, steel, 1 story, 60x40 feet, slag roof, pine floors.

Auto Show Room and Garage, Jenkintown, Pa. Contract awarded Hesswin Co., Oak Lane Trust Building, Philadelphia. Architect, L. Walton Heiss, Jenkintown, Penna. Owner, Dr. E. T. Quinn, Jenkintown, Penna. Brick, steel, 2 stories, 40x170 feet, slag roof, concrete and plank floors, plate glass, copper bars, steam heat, electric light.

High School, Palmerton, Pa. Contracts awarded. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Board of Education, T. C. Bittner, Palmerton, Pa. Brick, 2 stories and basement, 2 class rooms. General to Tamaqua Construction Co., Tamaqua, Pa. Plumbing to Costenbader Brothers, Palmerton, Pa. Electric to Wolfe Electric Co., Allentown, Pa.

Fraternity House, State College, Pa. Contract awarded Dowe G. Lowe, State College, Pa. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, Delta Sigma Chi Fraternity, State College, Pa. Stone, stucco, 2½ stories, 91x84 feet, slate roof, composition floors, cement work, weather strip, mill work, plastering, cinder concrete block, iron work, tile work, steam heat, electric light.

State Highway Patrol Building, Harrisburg, Pa. Contracts awarded. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Pennsylvania Department of Highways, J. L. Stuart, Harrisburg, Pa. General to Curtis Co., 10 South Eighteenth street, Philadelphia. Plumbing, Herre Brothers, Harrisburg, Pa. Electric, Dauphin Electric Co., Harrisburg, Pa.

Store Building, 64-68 Main street, Norristown, Pa. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia. Architect, Harold Holmes, Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Brick, limestone, steel, 2 stories and basement, 143x38 feet, excavation, concrete and cement work, Anti-Hydro waterproofing, hollow tile, architectural terra cotta, metal partitions, bronze tablets, iron work, dumb waiter, maple floors, metal store fronts, built-up roof, roof ventilators, plastic bond, metal lath, tile and marble work, terrazzo, painting, decorating, floor hardener, metal weather

stripping, steam heat, electric work, plumbing.

Residence, Fort Washington, Pa. Contract awarded Eli Utz, Telford, Pa. Architect, private plans. Owner, Earl Kulp, care of John Kulp, Fort Washington, Pa. Brick, steel, 2½ stories and basement, 41x26 feet, shingle roof, oak and pine floors, plumbing (heating reserved), electric light, tile work.

Farm Building (alts. and add.), Unionville, Pa. Contract awarded J. S. Cornell & Son, 1528 Cherry St., Phila. Architect, private plans. Owner, Mrs. Howe Low, 8003 Navahoe St., Philadelphia. Frame and stucco, 2 stories, 20x20 feet, shingle roof, general interior alterations.

Residence and Garage, Wayne, Pa. Contract awarded Fred Brookes, Ardmore, Pa. Architect, A. E. Westover, 109 South Twenty-second street, Philadelphia. Owner, George F. Wilfong, care of architect. Brick, 2½ stories

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and basement, 40x80 feet, shingle roof, oak and pine floors, vapor heat, electric light, tile work, ornamental iron work.

School, near Ephrata, Pa. Contract awarded. Architect, H. Raymond Heckman, Baer Bldg., Reading, Pa. Owners, Ephrata Township School Board, Benj. John, Pres., Ephrata, Pa. Brick, 1 story and basement, 57x83 feet, slag roof, pine floors. General: Harry F. Good, Ephrata, Pa. Plumbing: Adam Swigart, Honeybrook, Pa. Heating: E. F. Groff & Son, Ephrata, Pa. Electric: Mentzer Electric Co., Ephrata, Pa.

New Jersey Construction News

Community Building, \$20,000, Barrington, N. J. Work contemplated. Owners, Chamber of Commerce, Edward Mowrey, chairman, Barrington, N. J.

Bank Building, Warren and State streets, Trenton, N. J. Revised plans in progress. Will be ready for bids about July. Architects, York & Sawyer, 100 East Forty-second street, New York City. Owners, First Mechanics National Bank of Trenton, A. W. Wood, president, Trenton, N. J. Stone, brick, granite, 4 stories.

Administration Building, 446 Bellevue avenue, Trenton, N. J. Architects will be ready for bids this week. Architects, P. D. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Mercer Hospital, on premises. Brick, steel, 5 stories, 50x126 feet, reinforced concrete and tile roof, hardwood and composition floors, hollow tile, (2) elevators, safety treads, ornamental plaster, steel sash, tile, marble, terrazzo, metal lath, electric light, heating extension.

Home, Beverley, N. J. Architect taking bids due April 20th. Architect, H. P. Weber, 835 Washington street, Albany, N. Y. Owners, St. Joseph's Home for Aged, 116 West Third street, Beverley, N. J. Brick, steel, reinforced concrete, 3 stories and basement, 95x35 feet, slag, asbestos slate roof, cement, oak and pine floors, plumbing, steam heat, electric light, tile and terrazzo work, ornamental iron.

College, 854-58 Federal street, Camden, N. J. Architects taking bids due April 22nd. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, South Jersey Law School, Elmer G. Van Name, 622 Federal street, Camden, N. J. Brick, limestone, 3 stories, 52x120 feet.

Post Office Building, East State and Carroll streets, Trenton, N. J. Plans in progress. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Size of site, 278x347 feet.

School, Millville, N. J. Low bidders. Architect, Alex. Merchant, New Brunswick, N. J. Owners, Board of Education, E. W. Rumpf, Millville, N. J. Low bidders: Costanzo Brothers, 1540 Mt. Ephraim avenue, Camden, N. J. \$140,500; Wills-Bill, 1502 Locust street, Philadelphia, \$142,942.

Road Work, New Jersey. Owners taking bids due April 29th at noon (Daylight Saving Time). Certified check, 10 per cent. Deposit, \$10. Owners, State Highway Department, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route S-4A, Tuckerton to Little Beach, Ocean County. Route 29, Sec. 7, Raritan-Chimney Rock, Somerset County. Route 47, Sec. 2, Millville to Hesstown, Cumberland County. Unclassified excavation, hydraulic fill gravel surface, reinforced concrete pavement, improved shoulders, bituminous penetration macadam, bituminous concrete surface, borrow, gravel shoulders.

Bridge, Route 29, over Morris avenue, Union County, N. J. Low bidders: Keet Con-

struction Co., Elizabeth, N. J., \$95,529. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Concrete, steel, asphalt block, concrete piles, excavation.

Apartment House, Camden, N. J. Plans completed, ready for general contractors April 16th. Architects, Morganstein & Kohn, 1271 Magnolia avenue, Camden, N. J. Owners, Penn-Jersey Credit Corporation, care of National Engineering Co., H. Henkin, Southwest corner 7th and Chestnut streets, Philadelphia. Brick, steel, 4 stories, 100x150 feet, slag roof, hardwood floors, elevators, electric light, electric refrigeration, 46 apartments, vapor heat, tile and marble work.

Office Building, Northwest corner Broadway and Cooper streets, Camden, N. J. Work contemplated. Owner, J. O. Wilson, Wilson Building, Camden, N. J.

Sewers, Etc., Camden, N. J. Plans drawn. Owners will soon take bids. Owners, City of Camden, W. D. Brown, Camden, N. J. Sewers, culverts, drains, paving, excavating, grading, recurbing, sidewalks, repaving sidewalks.

Contract 21-1, Camden Co. Park System, in Berlin, N. J. Owner taking bids due April 18th 8 P. M. Owners, Camden Co. Park Commission, Z. M. Castor, Secretary, 807 Wilson Building, Camden, N. J. Consists of 7,240 feet, 10-foot high fence, 12 end posts, 8 corner posts. Certified check, 10%. Deposit, \$5.00, refunded.

Street Paving, Township of Pensauken, N. J. Owners taking bids due April 22nd, 8 P. M. Engineers, Remington & Vosbury, Camden, N. J. Owners, Township Committee of Pensauken, R. V. Peabody, Pensauken, N. J. Deposit, \$20. Refund, \$10. Certified check, 10%. Approximately 290 square yards 6-inch concrete gutter, 1,235 square yards 7-inch concrete paving, 640 cubic yards excavation.

New Jersey Contracts Awarded

Addition, \$18,000, 617 Broadway, Camden, N. J. Contract awarded Wm. Wrifford, 724 Washington street, Camden, N. J. Architect, private plans. Owner, William Cowgill, 617 Broadway, Camden, N. J. Brick, 3 stories, 40x34 feet, slag roof, hot water heat, electric work.

Store and Residence, (add and alts.), \$3,600. Contract awarded Samuel Levy, 1214 Kaighn avenue, Camden, N. J. Architect, Howard S. Stevenson, Camden, N. J. Owner, S. Goldberg, 449 Kaighn avenue, Camden, N. J. Brick, 1 story, 20x19 feet, slag roof, interior alterations.

Residence and Store, \$2,500, 742 Tulip St., Camden, N. J. Contract awarded Raymond Caruso, 1881 South 4th street, Camden, N. J. Architect, private plans. Owner, Guiseppi Di Camillo, 742 Tulip street, Camden, N. J. Brick, 2 stories, 14x28 feet, addition, slag roof, electric light.

Incinerator Plant, \$323,500, Huron and Tennessee avenues, Atlantic City, N. J. Contract awarded Nye Incinerator Co., Macon, Georgia. Owners, Atlantic City Commissioners, Tennessee and Atlantic avenues, Atlantic City, N. J. Capacity 240 tons daily, 3 furnaces 80 tons each.

Residence, Haddonfield, N. J. Contract awarded Collins B. Rogers, 501 Cooper street, Camden, N. J. Architect, Hubert S. Stees, Beverly, N. J. Owner, John A. Bottomley, Haddonfield, N. J. Cinder block, stucco, 2½ stories and basement, 70x50 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work.

Residence, Lawrenceville, N. J. Architects, W. W. Slack & Son, Trenton Trust Building,

Trenton, N. J. Owner, R. G. Kuser, Trenton Trust Building, Trenton, N. J. Contract awarded A. L. Robertshaw, Lawrenceville, N. J. Stucco, cinder block, stone, 2 stories, 118x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Residence, Hillonia, Trenton, N. J. Contract awarded Allan Walsh, 210 Parkside avenue, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Raymond Barrett, 139 Hoffman avenue, Trenton, N. J. Stone, 2½ stories, 80x60 feet, tile roof, hardwood floors, hot water heat, electric light, tile work, flagstone.

Store and Loft Building (alts.), Trenton, N. J. Contract awarded N. Milgaten, 53 Spring street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Hancock's, Broad and East Hanover streets, Trenton, N. J. Vapor heat, electric work, tile, composition floors, partitions.

Store and Residence, \$8,500, 745 Kaighn avenue, Camden, N. J. Contract awarded W. C. Magee, 315 Cattell avenue, West Collingswood, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Abraham Gould, care of architects. Brick, 2 stories, 19x55 feet, slag roof, hot water heat, electric work.

Residence, \$4,500, 1042 North Thirty-fifth street, Camden, N. J. Contract awarded Alfred Johnson, Merchantville, N. J. Architect, private plans. Owner, Albert Beich, care of builder. Frame, 1 story, 24x45 feet, slate surface roof, hot water heat, electric light.

Tire Shop, \$2,000, Mt. Ephraim avenue near Bridge Boulevard, Camden, N. J. Contract awarded George H. Evans, 1416 Vine street, Philadelphia. Owners, Sears-Roebuck Co., Camden, N. J. Brick, 1 story, 12 feet 6 inches x 12 feet 6 inches, asbestos shingle roof.

Miscellaneous Construction News

Residence and Garage, Lewes, Del. Plans about completed. Owner will take bids from local contractors in two weeks. Architect, J. H. Rackie, 4341 Frankford avenue, Philadelphia. Owner, Edwin C. Marshall, Lewes, Del. Brick, 2½ stories, 42x30 feet, 10x15 feet, garage, 24x25 feet, Mohawk shingle roof, hardwood and rubber tile floors, special millwork, cement work, vapor heat, electric light, oil burners, tile work, U. S. Gypsum Standard X plastering.

Residences (14) (note correct number). 1100 block, South Broome street, Wilmington, Del. Owners ready for sub-bids. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owners, Liberty Housing Co., 205 West Fourth street, Wilmington, Del. Brick, 2 stories, 20x30 feet, oak floors, tile, built-up roof, felt and asphalt roofing, tin roofing, hot water heat, slate and asbestos colored shingles.

Building (alts.), Queens Boulevard and Bliss avenue, Long Island City, N. Y. Plans in progress. Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, Bickford's Lunch System, 362 West Fiftieth street, New York. Granite, brick, L shape, bronze doors, entrance and bulks, marble, tile work, ornamental glass, terra cotta (interior).

Building (alts.), Webster avenue and East Fordham road, New York City. Plans in progress. Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, Bickford Lunch System, 362 West Fiftieth street, New York. Granite, brick, steel, bronze doors, bulks and entrances, tile and marble work, ornamental glass, interior terra cotta.

Residences (45), Rochester, N. Y. Owners will build and are taking sub-bids on first

fifteen. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Kodak Employee Realty Corporation, Rochester, N. Y. Stone, brick, frame, concrete block, 24,000 to 34,000 cubic feet, creodipt shingle roof, hardwood floors, hot air heat, electric light, tile work, steel sash.

Grade School, Minquadale, Del. Low bidders: Jones-Redditt Co., McClatchey Building, Upper Darby, Pa. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, superintendent, County Building, Wilmington, Del. Brick, concrete, 1 story, 159x31 feet, timber roof construction.

Grade School, Stanton, Del. Low bidders: Quaker City Construction Co., Sixty-third and Chester avenue, Philadelphia. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, superintendent, County Building, Wilmington, Del. Brick, concrete, timber, 1 story and basement, 144x37 feet.

School, Rose Hill, Del. Low bidders: Quaker City Construction Co., Sixty-third and Chester avenue, Philadelphia. Heating, plumbing and ventilating: T. T. Weldin & Son, 916 Orange street, Wilmington, Del. Electric: Electric Contracting Co., 111 West Eighth street, Wilmington, Del. Architects, Guilbert & Betelle, Chamber of Commerce Building, Wilmington, Del. Owners, State School Building Commission, Dr. H. V. Holloway, superintendent, County Building, Wilmington, Del. Brick, concrete, timber, 1 story, 153x77 feet, steel, iron, carpentry, masonry (plumbing, heating, ventilating and electric separate).

Armory (add. and alts.), Laurel, Del. Plans in progress. Architect, E. C. May, DuPont Building, Wilmington, Del. Owners, State Armory Commission, Wilmington, Del. Brick, steel, 1 story, 30x45 feet, composition roof, cinder and pine floors, electric light, kitchen equipment.

Church, Wilmington, Del. Plans in progress. Architects will be ready for bids next week. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, First Central Presbyterian Church, care of architects. Brick, steel, stone, 1 story and basement, 80x210 feet, slate and composition roof, hardwood, tile and composition floors, roof ventilators, waterproofing and damp-proofing, acoustical treatment, flagstone, ornamental iron, tile, marble (heating, plumbing and electric reserved).

Road Work, Delaware. Owners taking bids due May 7th, at 2 P. M. Certified check, 10 per cent. Owners, State Highway Department, Dover, Del.

Contract 118, Dexter's Corner to Delaney, 4.3 miles. Clearing, grubbing, excavation, borrow, cement concrete pavement, Class A concrete, reinforcement, metal pipe, R. C. pipe, guard rail.

Contract 121, Wendell's Corner to Woodland Beach, 3.96 miles. Excavation, borrow, cement concrete pavement, Class A concrete, corrugated metal pipe, R. C. pipe, wood shoulder curb, timber piling.

Contract CS-60, Bacon Station towards Smith Mill, 3 miles. Clearing, grubbing, excavation, borrow, cement concrete pavement, Class A concrete, reinforcement, corrugated metal pipe, R. C. pipe, cable guard rail, wood shoulder curb. Deposit, \$2.

Road Work, Delaware. Low bidders. Owners, State Highway Department, Dover, Del.

Contract 2D, Garrison's Mill Bridge and Roadway Replacement. James A. Hirons, Dover, Del., \$18,142.50.

Contract 104B, Milford Bridge, steel superstructure. George & Lynch, Dover, Del., \$32,957.50.

Contract 113, Law's School, Harrington, 4.77 miles. George & Lynch, Dover, Del., \$71,809.50.

Contract 120, Laurel-Independence School, 3.73 miles. Walter Roach, Georgetown, Del., \$61,099.80.

Miscellaneous Contracts Awarded

Aircraft Factory, Middle River, Baltimore County, Md. Contract awarded Hughes-Foulkrod Co., 1505 Race street, Philadelphia. Architect, Philip Lindsley Small, 1508 Terminal Tower Building, Cleveland, Ohio. Owners, Glenn L. Martin Co., Baltimore, Md. Brick, reinforced concrete, steel, 1 story and basement, 98x278 feet, 700 feet long, loading platform, standing platform, 300 feet long, excavation, waterproofing, floor hardener, cement floors, cinder block, iron work, steel sash, steel doors, metal toilet partitions, skylights, sash, composition roof, asphalt roof, roof ventilators, pine floors, marble, metal lath, painting, glazing, plumbing, steam heat, electric light.

Charles Carroll School, Westminster, Md. Contract awarded E. E. Stuller, Taneytown, Md. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Carroll County School Board, Mr. Unger, Westminster, Md. Brick, steel, 2 stories, 180x150 feet, composition roof, maple floors, bond, rolled steel sash.

Garage Building, Montchanin, Wilmington, Del. Contract awarded A. L. Lauritsen, DuPont Building, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, R. R. M. Carpenter, Montchanin, Wilmington, Del. Brick, steel, limestone, 2 stories and basement, 54x120 feet, slag and tile roof, cement floors, metal toilet partitions, waterproofing, cast stone, ornamental iron, hollow metal and tin-clad doors, steel sash, steel skylights, tile, marble, electric.

Residence and Garage, Wilmington, Del. Contract awarded Charles A. Eckman, 821 Orange street, Wilmington, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, J. L. Bennett, 633 South Grant street, Wilmington, Del. Brick, 2½ stories, slate roof, 36x30 feet, hardwood floors, hot water heat, electric light, tile work.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 9, 1929—SEALED PROPOSALS will be opened in this office at 3 p. m., April 29, 1929, for furnishing all labor and material required for furnishing and installing motor generator, etc., in the U. S. Mint at Philadelphia, Pa. Specifications may be obtained from the custodian at the U. S. Mint at Philadelphia, Pa., or at this office in the discretion of the supervising architect, JAS. A. WETMORE, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 15, 1929.—SEALED BIDS will be opened in this office at 3 p. m., May 13, 1929, for remodeling and enlarging the U. S. post office at Oil City, Pa. Drawings and specifications may be obtained from the custodian of the building, or at this office in the discretion of the supervising architect. JAS. A. WETMORE, Acting Supervising Architect.

Many a man would do a better job if he didn't know about putty.—Ex.

CHARLES WARNER COMPANY

A transaction involving over \$10,000,000, the largest in the building field of the Philadelphia district for sometime, took place recently when Charles Warner Company purchased the business and holdings of the Van Sciver Corporation of Philadelphia and thereby became the largest firm in the lime, sand and gravel field in the world. It is believed that by combining the two companies material savings will be effected by eliminating duplication of forces and equipment and that this will do away with the necessity for increased prices of these products which otherwise might have taken place, in the Philadelphia markets.

Charles Warner Company is one of the oldest commercial organizations in the United States, having a century and a quarter of continuous operation to its credit. The company was organized in 1794, during the second presidential term of George Washington, and has remained under the direction of members of the Warner family since that time. In that year, John and William Warner of Wilmington, Delaware, formed a partnership for the purpose of carrying on a transport and trading business. For this purpose, they used a site at the foot of Market Street in Wilmington. This property has been in possession of the Warner family for over 200 years and at present is used by the Wilmington Retail Yard. The original Warner Company operated a line of packets between Wilmington and Philadelphia and traded with the West Indies. The Company also carried on a general wholesale business.

Throughout the entire 134 years of its existence the Company has shown a steady growth and today there is a vast difference between the present organization, employing over 1500 men and women in its various plants and offices, and the little trading company formed during colonial days. The firm gradually concentrated upon building materials and imported considerable quantities of Portland Cement from England long before it was made in the United States. The Company purchased a lime plant as long ago as 1886 and from time to time added sand, lime, gravel and concrete mixing plants in various parts of Pennsylvania and New Jersey until it became one of the largest producers of its kind in the country.

Before buying the Van Sciver Corporation, the Warner Company owned thirteen plants and retail yards. Included in this number were the retail yards of the West Jersey Sand & Supply Corp. and the Merion Lime and Stone Company lime plant. The Charles Warner Company also controls and operates the American Lime & Stone Co. with extensive holdings of limestone in central Penn-

sylvania and plants at Union Furnace and Bellefonte, Pa. The American Company makes a very pure grade of high calcium lime which is largely used in chemical industries. Bellefonte is one of the largest lime shipping centers in the United States.

The Van Sciver Corporation is a long established and equally reliable company, having been engaged in the lime, sand and gravel business in the Pennsylvania-New Jersey District for the past thirty years. The very latest design of all practical equipment is found in the Van Sciver plants, and it has a deserved reputation for keeping its plants in excellent condition. Several of the Van Sciver plants that Charles Warner Company acquired by their recent purchase are immediately adjoining plants owned by the Warner Company.

The Van Sciver holdings which have been transferred to Charles Warner Company include the properties and business of the Hainesport Mining & Transportation Co., Knickerbocker Lime Co., and the Defrain Sand Company, all of which were recently combined by the Van Sciver Corporation.

A facsimile of an advertisement which appeared in a Wilmington newspaper in 1799 and a copy of which hangs in the Warner Offices includes a statement that orders from distant customers "will be promptly attended to and as faithfully executed as if they were present." This assertion forms the very basis of the Warner policy. The constant adherence to this policy, throughout its long term of service, resulted in the success of the organization.

The main office of the Warner Company is now located at 1518 Walnut St. The Delaware Peninsula wholesale sales department and the Wilmington retail accounting department will continue to operate in Wilmington.

A new Corporation to be known as WARNER COMPANY has been organized to take over the plants and equipment of the former Charles Warner Company and the Van Sciver Corporation. The new Company will have lime plants at Knickerbocker, Cedar Hollow and Bridgeport, Pa., extensive deposits of sand and gravel and preparing plants located on the Delaware River below Trenton, fine well-located and modern retail building material yards in Philadelphia and one in Wilmington, Del. In addition, the new Warner Company will control the American Lime and Stone Company. The river fleet of the new Company will include several preparing dredges, tugs and about 180 sand barges. With these resources and equipment, it will be the aim of the new Warner Company to render even better service than in the past.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship, it is going to miss by just that much the pulling power it ought to have.

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

The enormous strides made in public works construction in the United States during the past decade is cited as a significant post-war trend in the survey of the National Bureau of Economic Research shortly to be published with the report of the Committee on Recent Economic Changes of the President's Unemployment Conference.

Figures are given showing that nearly \$1,000,000,000 was expended in 1927 for waterworks, sewers, bridges, streets and roads, excavation, drainage and irrigation by counties, towns, cities, states and the Federal government, whereas less than \$400,000,000 was spent for the same purpose in the year after the close of the war. A comparison of present expenditures with those of the year before the war, when considerably less than \$200,000,000 went for public works is still more striking.

At the end of 1927 upwards of \$5,500,000 had been invested in this class of construction during the post-war period. The Federal government has been spending less in this direction, however, in recent years than it did in the years immediately after the war, the figures show.

The survey of the National Bureau of Economic Research was made at the request of the Committee on Recent Economic Changes following the appointment

of the latter body in January, 1928. The experts of the National Bureau have been since then steadily occupied gathering data for the Committee. The latter concluded its deliberations on March 2. The survey is an exhaustive inquiry into economic trends and changes in the United States during the post-war period. The report, based on the survey, is a critical appraisal of factors of stability and instability in our economic life. The report will be ready for publication in May, it was announced by Edward Eyre Hunt, Secretary of the Committee.

The total annual expenditures by years for public works, as given in the survey follows: In 1913, \$192,893,000; 1919, \$398,152,000; 1920, \$406,729,000; 1921, \$459,042,000; 1922, \$521,079,000; 1923, \$630,424,000; 1924, \$685,673,000; 1925, \$719,212,000; 1926, \$811,741,000; 1927, \$932,703,000.

In the same period, the Federal government's public work expenditures were: 1913, \$41,751,000; 1919, \$72,375,000; 1920, \$36,562,000; 1921, \$28,604,000; 1922, \$43,552,000; 1923, \$47,940,000; 1924, \$38,885,000; 1925, \$34,272,000; 1926, \$50,262,000; 1927, \$50,763,000.

Beginning with 1919 over half of these expenditures have been for roads and streets, which were as follows: In 1913, \$58,407,000; 1919, \$226,655,000; 1920, \$262,641,000; 1921, \$313,303,000; 1922, \$334,694,000; 1923, \$361,837,000; 1924, \$415,216,000; 1925, \$421,039,000; 1926, \$484,898,000; 1927, \$525,069,000.

Data on construction was gathered by the National Bureau's experts under the direction of Dr. John M. Gries, chief of the division of building and housing of the Department of Commerce.

The Committee on Recent Economic Changes is a continuation of the President's Unemployment Conference of 1921 which through a sub-committee on Business Cycles and Unemployment made a report in 1922-23 on booms and depressions also based on a survey by the National Bureau of Economic Research.

The Committee as now constituted is made up of President Hoover, chairman, Walter F. Brown, Renick W. Dunlap, William Green, Julius Klein, John Lawrence, Max Mason, Adolph C. Miller, Lewis E. Pierson, John J. Raskob, A. W. Shaw, Louis J. Taber, Daniel Willard, George McFadden, Clarence M. Woolley, Owen D. Young and Mr. Hunt, Secretary.

The extensive researches in behalf of the Committee were made possible through grants from the Carnegie Corporation of New York and the Laura Spelman Rockefeller Memorial.

The conclusions of the Committee, as well as the survey data will be published for public use.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

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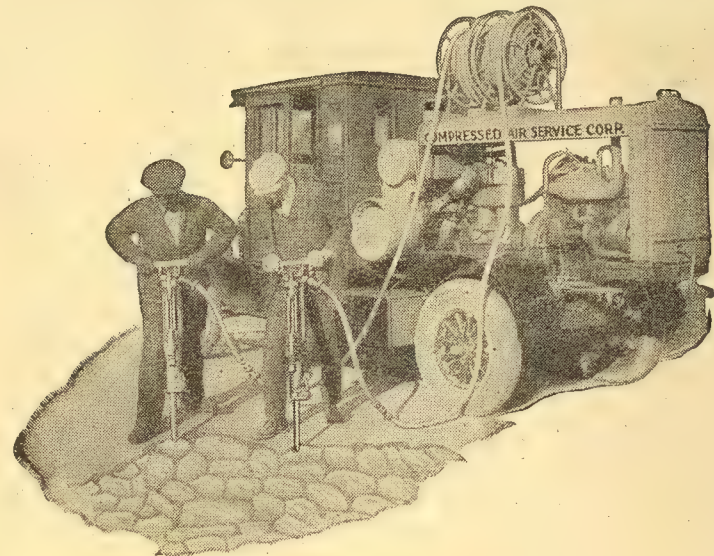
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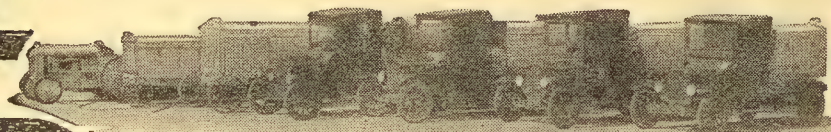
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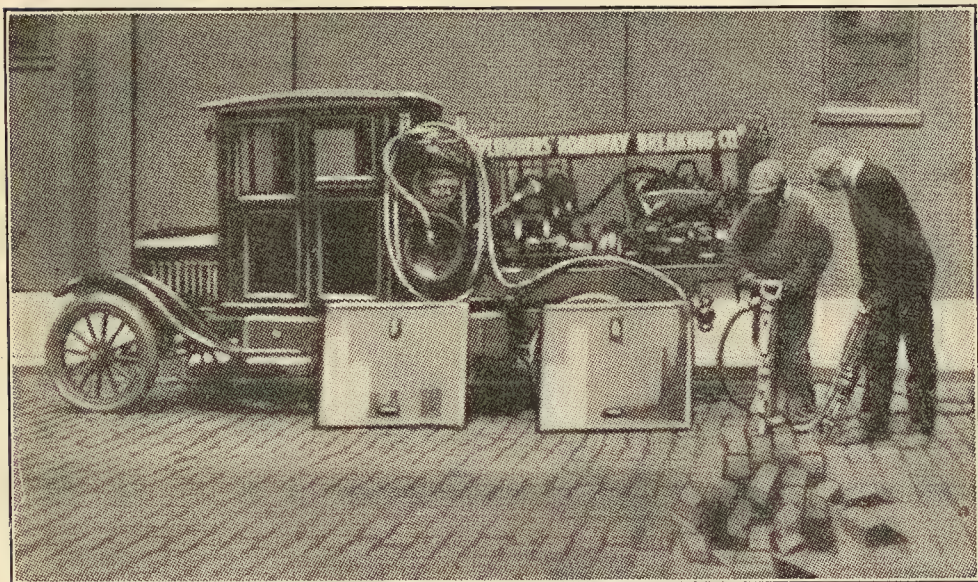
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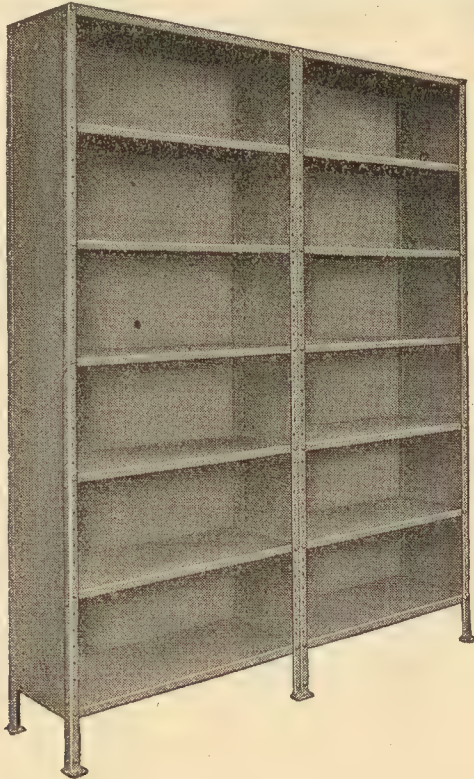
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VOLUME XLIV

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Hospital Building, \$1,500,000. Eighteenth and Bainbridge streets, Philadelphia. Work contemplated. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owners, Children's Hospital, on premises. Reinforced concrete, brick, steel, 3 and 4 stories, wards: infants', disease prevention, clinic and power plant.

Senior High School, Front and Duncannon streets, Philadelphia. Owner taking bids due May 7th. Architect, I. T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia.

Store Building, 9 South Sixteenth street, Philadelphia. Plans in progress. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Ellis Import Co., John Ellis, 126 North Delaware avenue, Philadelphia. Granite, brick, steel, limestone, 2 stories and mezzanine, 18x96 feet.

Bank, 224 -48 Lehigh avenue, Philadelphia. Work contemplated. Architect not selected. Owners, Lehigh Avenue National Bank, Dr. M. F. Sullivan, 2238 Lehigh avenue, Philadelphia, President. Limestone and marble.

Store Building, 2244 Lehigh avenue, Philadelphia. Work contemplated. Architect not selected. Owners, Brennan Brothers, care of Brennan's Drug Store, Twenty-third and Lehigh avenue, Philadelphia.

Elementary School (alts.), Thirty-fourth and Wharton streets; school, Twenty-sixth and Master streets; school, Thirteenth and Ssquehanna avenue, Philadelphia. Plans in progress. Architect, Irvin T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Own-

ers, Board of Education, Nineteenth and Ludlow streets, Philadelphia.

School of Occupational Therapy, 1839-45 Lombard street, Philadelphia. Preliminary sketches in progress. Architects, Bissell & Sinkler, 1520 Locust street, Philadelphia. Owners, School of Occupational Therapy, 2200 Delancey street, care of Mrs. Georgina Yeatman, East Graver's lane, Chestnut Hill. Brick, steel, stone, concrete.

Apartment House, Kerwyn and Oxford avenues, Philadelphia. New plans in progress. Architects, Talheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Kerwyn Apartments Co., care of A. S. Lazowick, 1208 North Broad street, Philadelphia.

Church and Sunday School (alts.), Parsonage (new), Sixth and Cheltenham avenue, Philadelphia. Revised preliminary plans completed. Architect, A. N. Dobbins, 1718 Cherry street, Philadelphia. Owners, Bickley Memorial Church, Rev. J. J. Bingham, on premises. New front, alterations, parsonage, stone, cinder block, stucco, 2 stories, 28x51 feet, irregular, slate roof, hardwood floors, hot water heat, electric light.

Store and Apartment, 2957 North Twenty-second street, Philadelphia. Plans in progress. Architects, Stackhouse & Donohoe, 266 South Fifteenth street, Philadelphia. Owner, Donato Santaneillo, care of architect. Brick, 3 stories and basement, 18x80 feet, slag roof, composition and wood floors, hot water heat, electric light, metal bulks, plate glass.

Parochial School and Chapel, West Oak Lane, Philadelphia. Plans in progress. Will be ready for bids in two weeks. Architect,

T. J. Earley, 402 Harrison Building, Philadelphia. Owners, St. Athanasius', Rev. T. L. Clooney, Limekiln and Walnut Lane, Philadelphia. Brick, stone, steel, 2 stories and basement.

Apartment House, West side Fifty-first, South of Woodbine avenue, Philadelphia. Owner taking sub-bids. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, L. N. Devons, 13 North Thirteenth street, Philadelphia. Brick, steel, 4 stories and basement, 85x110 feet, slag roof, oak and pine, cement floors, vapor heat, electric light, tile work.

Residence, Waterman avenue, between Germantown and Crefelt street, Lot No. 18, Sunset Development. Architects will build. Plans in progress. Architects, W. K. Durham & Irvine, 312 South Broad street, Philadelphia. Owner, William Buel Franklin, Jr., 260 South Seventeenth street, Philadelphia. Stone, 2½ stories.

Residence and Garage, Sixth and Cheltenham avenue, Philadelphia. Architect, Clarence L. Caspary, Mitten Building, Philadelphia. Plans in progress. Ready for general bids in 3 weeks. Owner, Hugh Hamilton, care of architect. Stone, 2½ stories, 54x40 feet, 24x24 feet, variegated slate roof, hardwood floors, hot water heat, no oil burner, electric light, tile work.

Store Building, 4144-48 Frankford avenue, Philadelphia. Plans in progress. Too early for details. Owner, Sidney K. Allman, Finance Building, Philadelphia.

Church and Sunday School, Northwest Corner Walnut and Greene streets, Germantown, Philadelphia. Architect taking bids due April

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30th, 5 P. M. Architect, Norman Hulme, 1624 Chestnut street, Philadelphia. Owners, Reformed Episcopal Church of the Atonement, Rev. H. P. Smith. Stone.

Cottages, Nos. 1 and 2 (alts. and add.), 2201 Belmont avenue, Philadelphia. Owners taking bids due May 9th, 3 P. M. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Board of Trustees, Home for the Training in Speech of Deaf Children, Mrs. W. T. Shoemaker, president, on premises. Bond, carpentry and mill work, plastering, painting, glazing, plumbing, hardware, electric work, slag roof. Certified check, 5 per cent. Deposit, \$25, refunded.

Review Club (alts.), Oak Lane, Philadelphia. Architects taking bids due April 25th. Architects, Trout & Truscott, Land Title Building, Philadelphia. Owners, Review Club of Oak Lane, Philadelphia. Excavation, stone work, waterproofing, concrete and cement work, structural steel, metal lath, plastering, carpentry and mill work, maple floors, metal partitions, hardware, electric work, painting, glazing, plumbing, steam heating.

Residence and Garage, Wakeling and Large streets, Philadelphia. Architect taking bids due April 26th. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, Mrs. Samuel McCaulley, Frankford avenue and Lehigh avenue, Philadelphia. Brick, 2½ stories and basement, 42x27 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work.

Passenger Stations (2), Manayunk, Philadelphia. Owners taking bids due April 26th, at noon. Architect, Clark Dillenback, 505 Reading Terminal, Philadelphia. Owners, Reading Company, Twelfth and Market street, Philadelphia. Brick, steel, 1 story, 90x33 feet, concrete and cement work, granite, brick work, ornamental terra cotta, hollow tile, cinder block, steel sash, slate roof, hollow metal doors, metal lath, plastering, tile work, marble work, caulking, painting, glazing, bronze work, plumbing, steam heating, hardware, electric work, freight station, asbestos built-up roof, 1 story, 92x30 feet, brick, steel. Bid bond. Deposit, \$25, refunded.

Burner Building, Filter Building, Girard Point, Philadelphia. Architect taking bids due April 29th. Architect, Edward B. Lee, Chamber of Commerce, Pittsburgh, Pa. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Brick, reinforced concrete, steel, 52 feet high, 40x114 feet, 66 feet high, 66x98 feet, slag roof, cement floors.

Store and Dwelling, 2831 Girard avenue, Philadelphia. Owner taking bids due April 26th. Architect, private plans. Owner, George A. Leins, 2825 Girard avenue, Philadelphia. Brick, steel, 3 stories and basement, 18x100 feet, slag roof, oak and pine floors, plumbing,

hot water heat, electric light, metal lath, tile work, metal bulks.

Residences (96), \$288,000. Plymouth and Elston streets, West of Eighteenth street, Philadelphia. Permit issued. Architect, private plans. Owners, James F. Nolen & Son, 64 East Church Lane, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Pump House, \$3,500. North side Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Architects, Smith & Leslie, Kansas City, Kan. Owners, Gulf Refining Co., P. O. Box 1567, Philadelphia. Brick, 1 story, 47x24 feet.

Residences (46), \$167,000. Rorer, Ruscomb and Bingham streets, Philadelphia. Permit issued. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, Finestone & Mittelman, 514 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 16x33 feet, 12x11 feet, slag roof, hardwood and pine floors, electric light.

Residences (27), \$81,000. Hancock and Mascher, North of Godfrey avenue, Philadelphia. Permit issued. Owner, Lyle H. Rickards, 6003 North Fifth street, Philadelphia. Brick, 2 stories, 16x28 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Office (add. and alts.), \$6,000. 1504 Fairmount avenue, Philadelphia. Permit issued. Owner, A. C. Thomas, 681 North Tenth street, Philadelphia. Brick, second story add., 16x12 feet, 5x25 feet, general alterations.

Residences (41), \$175,800. East side Walnut Lane, South of Seventy-fifth avenue, Philadelphia. Permit issued. Owner, Frank Kiely, 7032 Greene street, Philadelphia. Brick, 2 stories, 15x35 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (18), \$72,000. North side Bridge street, West of Sylvester street, Philadelphia. Permit issued. Owners, P. J. & T. P. McFarland, 2409 East Allegheny avenue, Philadelphia. Brick, 2 stories, 16x28 feet, 13x13 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (7), \$35,000. 3434-46 Midvale avenue, Philadelphia. Permit issued. Owner, M. J. McCrudden, Thirty-third and Midvale avenue, Philadelphia. Brick, 2 stories, 16x34 feet, 10x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residence, \$9,000. 531 East Mt. Airy avenue, Philadelphia. Permit issued. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, M. E. Tierney, Twelfth and Spring Garden streets, Philadelphia. Brick, 2 stories, 30x27 feet, hot water heat, electric light, hardwood and pine floors.

Gas Station, \$2,600. Permit issued. Architect, private plans. Owners, Sun Oil Co.,

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Manufacturing Building (add.), \$3,500. 2015 Allegheny avenue, Philadelphia. Permit issued. Architect, private plans. Owners, J. S. Thorn Co., 2011 Allegheny avenue, Philadelphia. Steel, frame, 1 story add., 38x157 feet.

Garage and Office, 209 South Ninth street, Philadelphia, \$4,000. Permit issued. Architect, John H. Hamilton, care of owner. Owners, Mundy Corporation, on premises. Brick, 2 stories, 18x77 feet, slag roof, cement floors, electric light.

Miscellaneous Sewer Work, Philadelphia. Low bidders. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Fifty-sixth street sewer at Schuylkill River, Joseph & Robert Lombardi, 1637 South Broad street, Philadelphia, \$32,660. Wissahickon high level in Stockley street, H. W. Horst Co., 6900 State street, Tacony, \$169,835. Sewage disposal project, Kirkbride street, J. & R. Lombardi, 1637 South Broad street, Philadelphia, \$20,623. Princeton street, J. T. McDonald, 2313 South Front street, \$20,909.50. Sanger street, J. & R. Lombardi, 1637 South Broad street, \$15,420. Branch sewer, Maryland road, Vincent Ventresco, 6016 Ross street, \$10,483.85.

Depot of Public Works, Bureau of Water. Low bidders. No. 960, furnish and deliver pig lead. Nathan Trotter, 36 North Front street, Philadelphia, \$7,190.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Bureau of Highways, Department of Public Works, Philadelphia. Bridge, Brill, Saul and Penn, Joseph Herzog, 4314 York road, Philadelphia, \$589.75. G. Lippincott, Venango, Ontario, Tioga, etc., Duffin Brothers, Penn and Womrath streets, Philadelphia, \$1,058.85. Foulkrod, Summerdale to Roosevelt Boulevard, Marino Masse, 3936 North Reese street, Philadelphia, \$644.26. Greenway, Sixty-eighth to Church Lane, Thomas P. Lee, 5629 Cherry street, Philadelphia, \$627.69. Hawthorne, Knorr, Levick, Hellerman, Unruh, etc., Joseph Herzog, 4314 York road, Philadelphia, \$6,602.40. Levick, Walker to Cottage, Joseph Herzog, 4314 York road, Philadelphia, \$1,675.09. Ontario, Webb, Miller, Westmoreland, etc., Duffin Brothers, Penn and Womrath streets, Philadelphia, \$525.35. Reach, Courtland to Wyoming, Joseph Cicone, 5732 Westminster avenue, \$3,150.44. Solly, Summerdale to Algon, Dewees Brothers, Shelborne and Vincent streets, \$1,172. Spencer, Broad to Camac, Marino Masse, 3936 North Reese street, Philadelphia, \$4,308.84. Tulpehocken, Seventy-fifth to Cheltenham, S. C. Rotzell, Limekiln pike and Haines street, Philadelphia, \$2,614.92. C, Venango street, A to B, Joseph Cicone, 5732

Westminster avenue, Philadelphia, \$2,945.26. Fifty-second, Woodland to Paschall, Philadelphia Exc. Co., 2819 West Gordon street, Philadelphia, \$5,192.80. Removal of trees, Harley, Eighty-third, Tinicum, etc., Morse & Morse, 1524 Chestnut street, Philadelphia, \$1,602.50. Country road improving, Bleigh, Shelmire, Penway, etc., F. A. Canuso & Son, 804 South Twelfth street, Philadelphia, \$3,754.40. Intersection of Broad street and Morris street, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$2,327.75. Paint Broad Street Bridge over the Reading, F. J. Atkinson, 308 South Fourth street, \$1,908.25. Furnish and erect street smoke sheathing, Fifty-seventh Street Bridge, Tri-State Construction Co., Finance Building, Philadelphia, \$1,545. Renewal of scuppers, Spring Garden Street Bridge, Tri-State Construction Co., Finance Building, Philadelphia, \$1,985.

School Supplies, District of Philadelphia. Owners taking bids due May 7th. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Brushes, educational supplies, paper, lumber, hardware, shellac, oils, paints, resurfacing of blackboards, etc.

Club House, (alts.), 1906 Rittenhouse Square, Philadelphia. Architect taking bids due Apr. 30th, at noon. Owners, Ethical Culture Society, care of Dr. Brubaker, 1324 Spruce street, Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia.

Bank, 2246-48 Lehigh avenue, Philadelphia. Plans in progress. Architect, T. Edward Ash, 2021 Chancellor St., Philadelphia. Owners, Lehigh Avenue National Bank, Dr. M. F. Sullivan, 2238 Lehigh avenue, Philadelphia. Limestone and marble.

Manufacturing Building, Indiana avenue and 18th street, Philadelphia. Architect taking bids due April 26th. Architect, Julian Simsohn, Broad and Girard avenue, Philadelphia. Owner, Charles Kahn, Provident Trust Building, Philadelphia. Brick, steel, cast-stone, 2 stories and basement, 122x61 feet, demolition, excavation, fireproofing, bond, gypsum slab roof, steel sash, steel tube doors, magnesite floors, linoleum floors, Carey spec roof, rooled steel skylights, plumbing, metal partitions, elevator (heating, sprinkler reserved.)

Gas Station, \$3,500, Northeast corner 53rd and Baltimore avenue, Philadelphia. Permit issued. Owners, Standard Oil Co. of Penna., Public Ledger Building, Philadelphia. Tile, stucco, 1 story, 14x18 feet.

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

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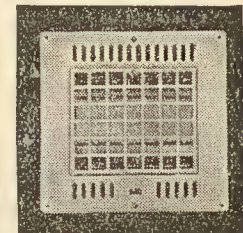
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Thirty-second and Allegheny avenue, Philadelphia. Contract awarded J. S. Rogers, Drexel Building, Philadelphia, Pa. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Reyburn Manufacturing Co., on premises. Reinforced concrete, brick, 5 stories and basement, 245x100 feet, bond, excavation, demolition, reinforced concrete, hollow tile, safety treads (Mason or equal), metal lath, metal sash (Truscon, Fenestone or equal), hollow metal doors (Jamestown), elevator doors, rolled steel doors, carpentry and mill work, metal toilet partitions (Sanymetal or equal), slag roof, iron stairs, terrazzo, marble, slate roof, architectural terra cotta, electric work, elevator, vacuum steam heat, plumbing, pipe covering, sprinkler system, concrete floors, floor hardener (Truscon), fire doors.

School and Rectory, Eighteenth and Pollock streets, Philadelphia. Contract awarded Morlock Davis Co., Fifteenth and Race streets, Philadelphia. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Richard's Roman Catholic Church, Rev. G. P. Boyle, 1825 Pollock St., Phila. Stone 3 stories and basement, 56x35 feet, excavation, reinforced concrete, cement work, floor hardener, waterproofing, dampproofing, structural steel, brick, hollow tile, caulking, granite, iron work, steel casement sash, kalamein doors, concrete pile, iron stairs, area gratings, maple floors, slag roof, roof ventilators, metal lath, plastering, ornamental plaster (plumbing, heating, electric separate), tile floors, marble and tile.

Church (alts. and add.), Broad and Venango streets, Philadelphia. Contract awarded H. P. Schneider, 3713 Old York road, Philadelphia. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Trinity Reformed Church, Rev. P. E. Dietz, 3911 North Seventeenth street, Philadelphia. Stone, steel, limestone, 2 stories add., 53x77 feet, 1 story add., 22x120 feet, slate, gypsum and slag roof, gypsum, cement and maple floors, architectural terra cotta, metal lath, tile, marble, terrazzo, bond, iron work.

Apartment House and Stores, Oxford and Bridge streets, Philadelphia. Contract awarded David Wittenberg, 1519 North Thirty-third street, Philadelphia. Architect, Benjamin

Brown, Atlantic City, N. J. Owners, Lazowick Brothers & Sherra, Real Estate Trust Building, Philadelphia. Brick and steel, 2 stories and basement, 50x60 feet, slag roof, oak and pine floors.

Factory, 232 Vine street, Philadelphia. Contract awarded Graham Chambley Co., 3649 Filbert street, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 50x12 feet, slag roof, pine floors, elevator, steam heat, electric light, steel sash.

Apartment House (alts.), 1204-06 Rockland street, Philadelphia. Contract awarded C. S. Bannett, 4700 Springfield avenue, Philadelphia, who is taking sub-bids. Owners, National Engineering Co., J. Henken, Washington Square Building, Philadelphia. Oak floors, California stucco painting, glazing, plastering, slag roof, vapor heat, electric work, tile bath.

Garage, East side Wissahickon avenue, North of School House Lane, \$66,000. Contract awarded Samuel Hankins, 5204 Gainor road, Philadelphia. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owner, Louis Lifter, Sixty-third and Walnut streets, Philadelphia. Brick, 1 story, 206x104 feet, cement floors, slag roof.

Office and Residences (alts.), \$6,000. 5904-06 North Broad street, Philadelphia. Contract awarded George Kessler Contracting Co., 1733 North Marvine street, Philadelphia. Architect, private plans. Owner, Herbert E. Hope, on premises. General alterations.

Residence, \$4,000. Southeast Corner Covenant avenue and Jackson street, Philadelphia. Contract awarded Matchor McCabe, Aubrey and Hegerman streets, Philadelphia. Architect, private plans. Owner, Albert Sparling, 6535 Torresdale avenue, Philadelphia. Frame, 2 stories, 22x30 feet, hot water heat, electric light.

Residence and Store (add. and alts.), \$2,800. 2126-28 Columbia avenue, Philadelphia. Contract awarded Martin J. Golden, 1238 East Cheltenham avenue, Philadelphia. Architect, private plans. Owner, H. Kotzen, 2124 Columbia avenue, Philadelphia. Brick, 1 story add., 26x34 feet, general alterations.

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worth streets, Philadelphia. Contract awarded Frank De Marco, 2012 South Sixteenth street, Philadelphia. Architect, private plans. Owner, Dr. Giovanni Feo, 1004 South Eleventh street, Philadelphia. Brick, 1 story, 8x17 feet, general alterations.

Store and Residence (add.), \$2,000. 6145 Lansdowne avenue, Philadelphia. Contract awarded Nason & Cullen, Ardmore, Pa. Architect, private plans. Owner, M. J. Feeney, on premises. Brick, 1 story add., 14x16 feet.

Residence (add.), \$4,200. 921-23 Morris street, Philadelphia. Contract awarded James Rodda, 2534 South Eleventh street, Philadelphia. Owner, W. B. Heidenger, City Center Building, Philadelphia. Brick, 2 stories add., 13x27 feet.

Fire Repairs, \$4,000. 137-39 North Sixth street, Philadelphia. Contract awarded Fred Gotterman, 3437 Ridge avenue, Philadelphia. Architect, private plans. Owner, A. Berkowitz, Sixty-first and Lebanon avenue, Philadelphia. General fire repairs.

Store, \$3,000. 1930-32 South Sixty-fifth street, Philadelphia. Contract awarded Charles M. Greenwood, 253 East Penn street, Philadelphia. Architect, private plans. Owner, Sidney K. Allman, Finance Building, Philadelphia. Brick, 1 story, 30x60 feet.

Residence and Store (add.), \$2,500. Southeast Corner Rochelle avenue and Sumac street, Philadelphia. Contract awarded William D. Ralston, 5109 Ridge avenue, Philadelphia. Architect, private plans. Owner, J. F. Strawinski, 3900 Terrace street, Philadelphia. Brick, 1 story add., 5x24 feet.

Residences (2), \$7,000. 4330-32 Bermuda street, Philadelphia. Contract awarded Felix Tatko, 5103 Tulip street, Philadelphia. Architect, private plans. Owner, S. Dambposki, 2383 Orthodox street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, pine floors, electric work.

Chimney, \$3,000. 420 Wallace street, Philadelphia. Contract awarded A. B. MacGregor & Son, 1628 Vine street, Philadelphia. Architect, private plans. Owner, H. K. Wampole, 432 Fairmount avenue, Philadelphia.

Garage, \$2,000. 2504-06 Sepviva street, Philadelphia. Contract awarded John Taylor & Son, 2628 Braddock street, Philadelphia. Architect, private plans. Owner, William M. Armstrong, 2167 East Cumberland street, Philadelphia. Brick, 1 story, 17x30 feet, slag roof, cement floors, electric work.

Bridge, Schuylkill River and Filbert street, Philadelphia. Contract awarded Dravo Contracting Co., Pittsburgh, Pa. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. 400 feet long, 125 feet wide, waterproofing.

Underground Pedestrian Concourse, relocation of Market Street Subway express tracks under City Hall. Owner, Department of City Transit, Thirteenth Floor, City Hall Annex. Contract awarded Underpinning & Foundation Co., Finance Building, Philadelphia, \$1,919,445.

Pennsylvania Construction News

Residence, Garage, Stables, Butler's House and Miscellaneous Buildings, \$1,000,000. Haverford, Darby, Radnor, Chester and Marple road, Haverford, Delaware County, Pa. Preliminary plans in progress. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, A. Atwater Kent, Atwater Kent Manufacturing Co., Wissahickon and Abbottsford road, Philadelphia, and Ardmore, Pa. Limestone, granite.

Summer Camp, Monroe and Pike Counties, 19 miles from Stroudsburg, Pa. Plans in progress. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, Dr. Cheeseman A. Herrick, president, Corinthian and Girard avenues, Philadelphia. Grading, recreation buildings, etc.

College Library (add.), \$200,000. Men's Gym, \$250,000. Power Plant, \$100,000. Swarthmore, Pa. Work contemplated. Owners, Swarthmore College, Charles F. Jenkins, Vice-President, Board of Managers.

School Buildings and Renovating Present Building, \$750,000. Haverford, Pa. Work contemplated. Owners, Haverford College, Dr. Edwin M. Wilsoa in charge, and W. Logan MacCoy, Commercial Trust Building, Philadelphia.

Office and Residence, Bethlehem, Pa. Plans in progress. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owners, Castellucci & Piccirilli, 823 East Fourth street, Bethlehem, Pa. Brick, stone, 3 stories, 24x70 feet, slate and slag roof, hardwood floors, hot water heat, electric light, tile work.

Club, Bethlehem, Pa. Preliminary plans in progress. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Elks' Home, Bethlehem Lodge, 325 Wyandotte street, Bethlehem, Pa. Brick, steel, 1 story and basement, 57x70 feet.

Bank Building, \$50,000. Harleysville, Pa. Architect selected. Sketches drawn. Architect, C. M. Talley, Telford, Pa. Owners, Harleysville National Bank, A. C. Alderfer, Harleysville, Pa. Brick, limestone, 1 story, mezzanine and basement, 40x70 feet.

Home (alts. and add.), \$100,000, 37 South Eighth street, Reading, Pa. Plans in progress. Architect, E. Hickman, 148 North Fifth street, Reading, Pa. Owners, Fraternal Order of Orioles, Nest No. 2, R. C. Clausen, 37

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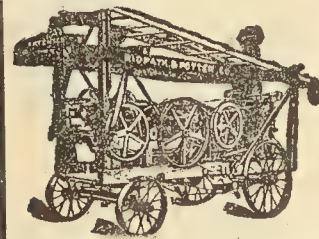
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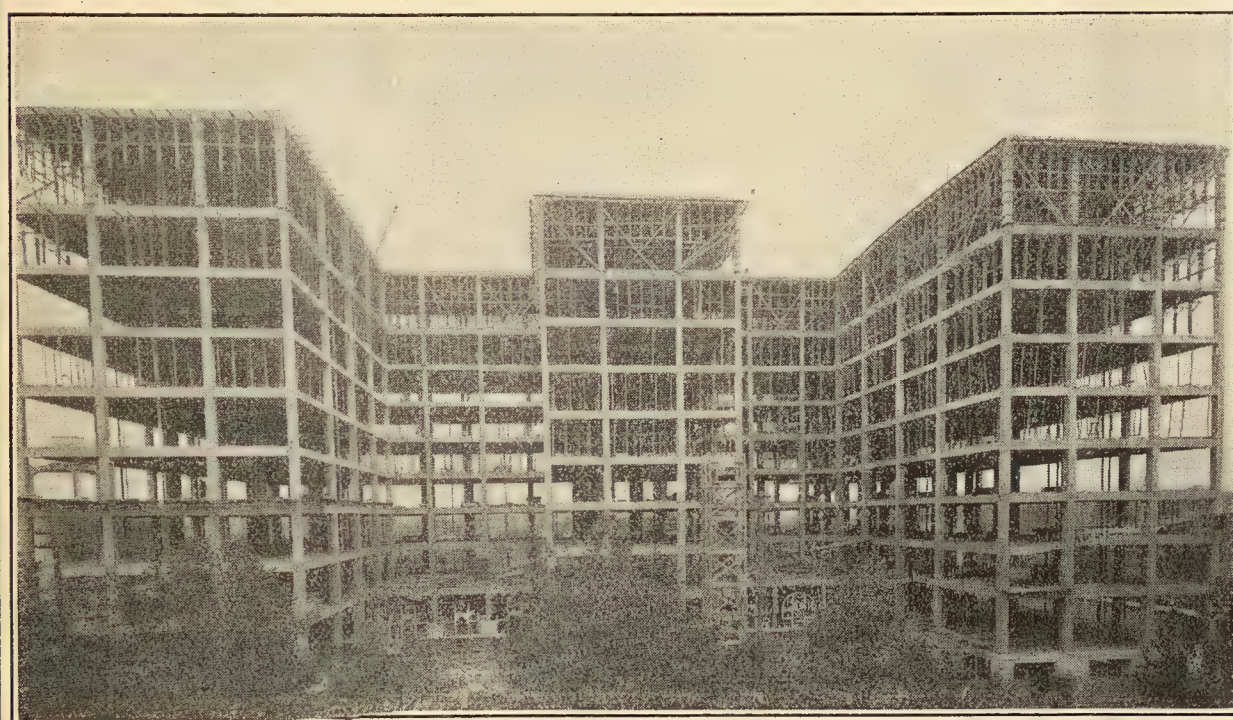
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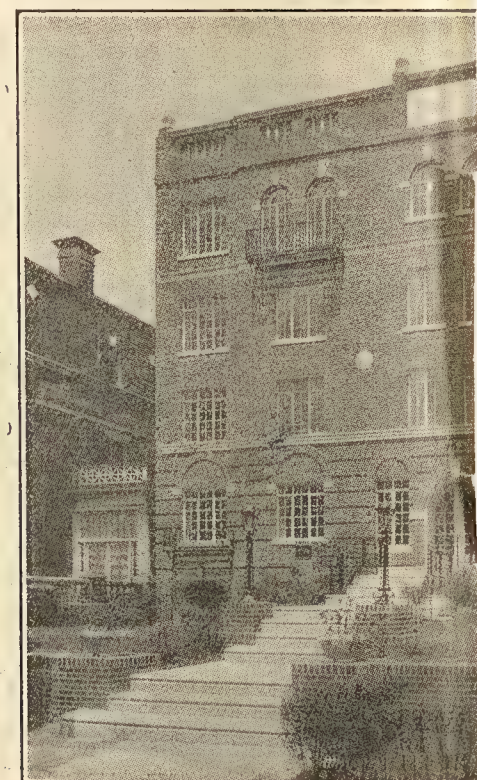
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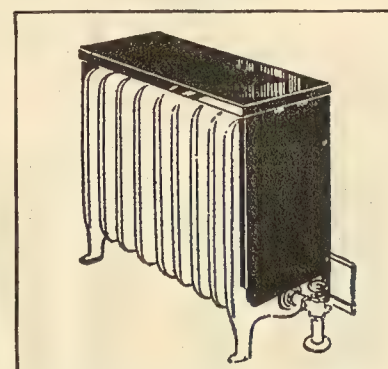
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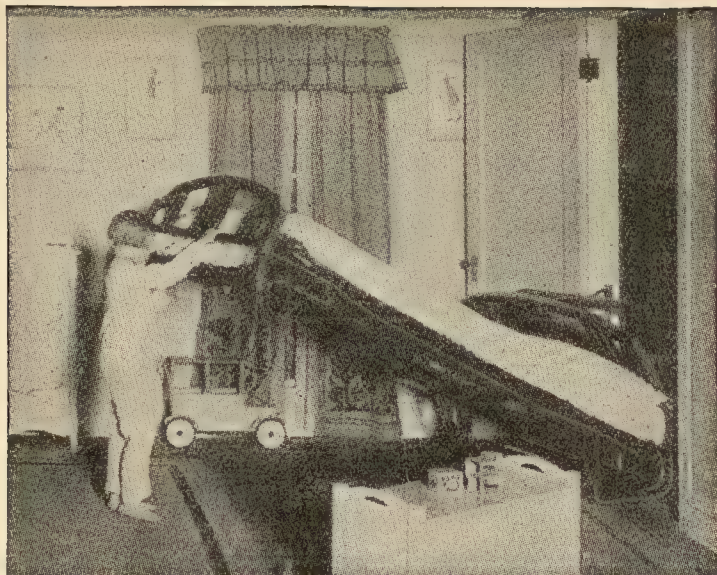
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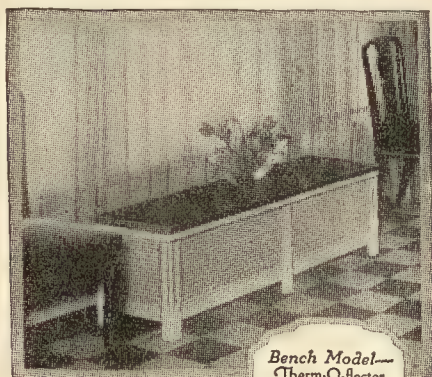
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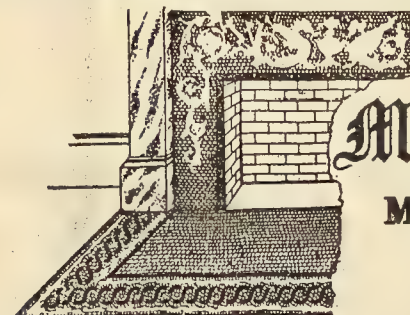
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Residence and Garage, near Souderton, Pa. Plans in progress. Architect, Jerome S. Landes, Souderton, Pa. Owner, name withheld. Brick, 2½ stories, 40x60 feet, garage, 2 stories, 22x50 feet, slag or variegated shingle roof, hardwood, tile and cement floors, vapor heat, electric light, tile work.

College Building, \$1,300,000. Newtown Square, Pa. Work contemplated. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Ellis College, Anna B. Wetherill, secretary, Board of Trustees, 712 Commonwealth Building, Philadelphia.

Fire House (add.), Elkins Park, Pa. Plans in progress. Architects, Silverman & Levy, 313 South Smedley street, Philadelphia. Owners, Elkins Park Fire Co., on premises. Brick, 2 stories.

Residence, Hillbrook and Glenview roads, Bryn Mawr, Pa. Sketches in progress. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Elmer G. Pursly, 1421 Chestnut street, Philadelphia. Stone, 2½ stories.

New Church and Alterations to Sunday School, Chambersburg, Pa. Plans about completed. Ready for bids in one week. Architects, Office of John B. Thomson, architect, and L. De Forest Emmert, 1321 Arch street, Philadelphia. Owners, Trinity Lutheran Church, Chambersburg, Pa. Stone, brick, steel, 3 stories, 108x51 feet, slate and copper roof, maple floors, vapor heat, church furniture, cast stone, leaded glass, wood joist, miscellaneous iron work, moving Sunday School and general alterations.

Bowling Alley, Croyden, Pa. Preliminary plans in progress. Owner will build and will take sub-bids. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, Howard Leister, Croyden, Pa. Brick, 1 story, 136x117 feet, slag roof, pine floors, hot water heat, electric light.

Residence and Garage, Marple Heights, Pa. Plans in progress. Owner will sub-let. Architect, Harold Edward Williams, Drexel Park, Pa. Owner, J. W. Murray, 330 West Second street, Media, Pa. Stone, frame, 2½ stories, 35x70 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Warehouse, Fifth and Crosley streets, Chester, Pa. Plans in progress. Ready for bids in two weeks. Architect, Frank C. Watson, Chester, Pa. Owners, Edwin Garrett & Son, Sixth and Welsh streets, Chester, Pa. Brick, 2 stories, 30x60 feet, slag roof, cement floors, electric light.

Residence and Garage, Souderton, Pa. Owner will build and will take sub-bids. Architect, C. M. Talley, Telford, Pa. Owner, H. S. Hallman, Souderton, Pa. Brick, stucco, 2½ stories, 45x33 feet, variegated slate roof, hardwood floors, electric refrigerators and range, hot water heat, electric light, metal lath, tile work, steel sash.

Residence and Garage, Souderton, Pa. Owner will build and will take sub-bids. Architect, C. M. Talley, Telford, Pa. Owner, Theodore Hallman, Souderton, Pa. Brick, stucco, 2½ stories, 40x38 feet, variegated slate roof, hardwood floors, electric refrigeration and range, hot water heat, electric light, metal lath, tile work, steel sash.

Residence, Montgomery avenue and Spring Mill road, Villa Nova, Pa. Revised plans in progress. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, Thomas E. Hare, 819 Walnut street, Philadelphia.

Apartment House, Chester road and Rutgers avenue, Swarthmore, Pa. Owners taking sub-bids. Architect, Roy G. Pratt, 1420 Walnut street, Philadelphia. Owners, Metropolitan Holding Co., Inc., 219 South Broad street, Philadelphia. Reinforced concrete, steel, 4 stories, 135x180 feet, 60 apartments, slag roof, hardwood, linoleum, linotile floors, electric elevators, refrigeration, incinerators, electric light, cement work, laundry equipment, Murphy door beds, vapor heat, electric light, oil burners, tile work.

Store and Apartment, Fourth and Polk streets, Bethlehem, Pa. Owner ready for bids. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Rev. E. A. Steigler, 621 East Fourth street, Bethlehem, Pa. Brick, 2½ stories, 36x50 feet, slate roof, maple floors, hot water heat, electric light, tile work.

Store and Warehouse, 116 East Center street, Nazareth, Pa. Architect will be ready for bids May 1st. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Unangst Furniture & Carpet Co., care of Addison and George Unangst, North New street, Nazareth, Pa. Brick, steel, 2 stories, 190x40 feet, slag roof, maple floors, cast stone, steel sash.

Sales and Service Building, Southeast Corner Garrett and Kingston roads, Upper Darby, Pa. Owner is building. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, Edward A. Bertollett, Upper Darby, Pa. Brick, steel, concrete, 1 story and basement, 65x170 feet, concrete slag roof and poors, steel sash, plate glass.

Residence and Garage, Haverford, Pa. Owner will build. Architects, W. K. Durham & Irvine, 312 South Broad street, Philadelphia. Owner, Walter K. Durham, 312 South Broad street, Philadelphia. Stone, 2½ stories, hot water heat, slate roof, hardwood floors, electric light, tile work.

Residence, North Wales, Pa. Owner will build and is taking sub-bids. Architect, Jerome S. Landes, Souderton, Pa. Owner, Otto Schlieske, North Wales Bank Building, North Wales, Pa. Brick, alternate concrete block, stucco, 2½ stories, 24x36 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work.

Twin Residences (2), Lansdale, Pa. Owners will build and will be ready for sub-bids in one week. Architect, Jerome S. Landes, Souderton, Pa. Owners, Alphonsus Fox, Souderton, Pa., and Paul Freed, Lansdale, Pa. Brick, 2 stories, 39x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Dye House, Eighth and Harrison streets, Allentown, Pa. Architects will be ready for bids in ten days. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Arcadia Knitting Mills, 749 Harrison street, Allentown, Pa. Brick, 1 story, 60x150 feet, concrete and maple floors, electric light, steel sash, fire doors.

Administration Building and Boiler Room, Fourth and Chew streets, Allentown, Pa. Architects taking bids due May 1st. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Hospital, 421 Chew street, Allentown, Pa. Brick, 4 stories and basement, 42x112 feet, 2 stories, 40x70 feet, concrete, slag roof, hollow tile, elevators, cast stone, brass pipe, ornamental iron, iron stairs, kalamein doors, tile, marble, terrazzo, metal lath, electric work, dampproofing, reinforced concrete floors.

Hall of Civics Building, Easton, Pa. Architects taking bids due May 1st, 12 noon. Architects, Warren & Wetmore, 16 East Forty-seventh street, New York City. Owners, Lafayette College, Easton, Pa. Limestone, granite, steel, 2 stories and basement, 143x80 feet, steam heat, electric light, metal lath, tile, marble and terrazzo work, cement floors, plumbing, Italian tile roof, cork floors, weather stripping, caulking, bond, waterproofing and dampproofing.

Consolidated School, Duncannon, Pa. Owners taking bids due April 27th. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Penn Township School Board, J. G. Mutzabaugh, Duncannon, Pa. Brick, 1 story and basement, 120x60 feet, Barrett roof, yellow pine and oak floors, roof ventilators, metal lath, bond (heating, plumbing and electric separate).

Residence and Garage, Prospect Park, Pa. Architect taking bids. Architect, J. Coshland, Chester, Pa. Owner, Ira Short, Essington, Pa. Brick, 2 stories, 26x31 feet, asbestos shingle roof, hardwood floors, cement floors, hot water heat, electric light, tile work.

School, Edgemont avenue, Parkside, Pa. Owners taking bids due April 29th, 8 P. M. Architect, C. M. Ryder, Chester, Pa. Owners, Parkside School District, J. H. Phipps, 2606 Edgemont avenue, Chester, Pa. General construction. Deposit, \$5. No refund. Certified check, \$500. Plumbing, heating, electric, ventilating. Deposit, \$5, no refund. Certified check, \$200.

Theatre, Stores (6) and Apartment, Erie, Pa. Architects taking revised bids due April 29th. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Warner Brothers, Real Estate Department, 321 West Forty-fourth street, New York.

Library, \$8,000, Grantham, Pa. Plans in progress. Architect, private plans. Owners,

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Messiah Bible College, Grantham, Pa. Brick and stone, 1 story, 50x30 feet, slag roof.

Auditorium and Gymnasium, Grantham, Pa. Work contemplated. Architect not yet selected. Owners, Alumni of Messiah Bible College, Grantham, Pa.

Parsonage, East Prospect, York County, Pa. Work contemplated. Owners, Zion Evangelical Church, Rev. H. P. Maninork, East Prospect, Pa.

Residence and Garage, Collingdale, Pa. Owner taking sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Harold Hansen, Collingdale, Pa. Brick, frame, 2½ stories, 24x36 feet, shingle roof, 10x20 feet (garage), hardwood floors, hot water heat, electric light, tile work.

Grade Schools (2) (add.), Laurel Bend, Croyden, Pa. Will be ready for new bids in a week. Architect, Charles H. Jester, 141 South Fifty-second street, Philadelphia. Owners, Bristol Township School Board, E. A. Smith, Newportville, Pa. Brick, excavation, concrete foundations, miscellaneous iron, bond.

Factory, Spring Mill, Pa. Architect taking bids due April 30th, 3 P. M. Architect, R. B. Bencker, 1601 Chestnut street, Philadelphia. Owners, Walker Brothers, Spring Mill, Pa.

Training School, \$101,500. Bloomsburg, Pa. Low bidder: Berwick Lumber & Supply Co., Berwick, Pa. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Bloomsburg State Teachers' College, Dr. F. B. Haas, principal, Bloomsburg, Pa. Brick, steel, 3 stories, 160x63 feet, built-up and slate roof, linoleum, tile and red gum flooring, cinder concrete block, metal stairs, tile, marble, hollow metal toilet partitions, hardware, painting glazing, kalamein doors, sheet metal, metal lath, plastering, cast stone, hollow tile, membrane waterproofing, concrete work.

Laundry Building, \$23,400. Bloomsburg, Pa. Low bidder: Berwick Lumber & Supply Co., Berwick, Pa. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Bloomsburg State Teachers' College, Dr. F. B. Haas, principal, Bloomsburg, Pa. Brick, cast stone, steel, 1½ stories and basement, 85x36 feet, slate roof, cement floors, safety treads, waterproofing, kalamein doors, steel sash, metal lath, painting, glazing, hollow metal toilet partitions, excavating.

Storm Sewer, Marcus Hook, Pa. Owners taking bids due May 6th, 7 P. M. (Standard Time). Assistant engineer, Chester S. Baker, Chester, Pa. Owners, Borough of Marcus Hook, C. R. Renni, Marcus Hook, Pa. Certified check, \$500,000.

Paving, Chester, Pa. Owners taking bids due May 7th, 2 P. M. Owners, City of Chester, B. Newsome, Department of Parks and Public Property, City Hall, Chester, Pa. 890 square yards reinforced concrete, 240 lineal feet concrete curb. Deposit, \$2, refunded. Certified check, 5 per cent. Bond, 50 per cent.

Curbs and Gutters, Darby Township, Pa. Owners taking bids due May 7th, 10 A. M. (Standard Time). Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. 189 lineal feet standard curb and gutter. Certified check, \$200.

Road Work, Pennsylvania. Low bidders. Owners, State Highway Department, James L. Stuart, secretary, Harrisburg, Pa.

Lawrence County, R-80, Neshannock Township. One course reinforced concrete. McDermott Construction Co., Niles, Ohio, \$77,202.80.

Northumberland County, R-18, Sec. 7, Point Township. One course reinforced concrete. Swanger-Fackler Construction Co., Lancaster, Pa., \$89,728.02.

Beaver County, R-243, Sec. 1AA, Borough Township. One course reinforced concrete. Rinehart Brothers, East Liverpool, Ohio, \$15,100.35.

Schuylkill County, R-718, Ashland Borough, Butler Township. One course reinforced concrete. Kulpmont Construction Co., Kulpmont, Pa., \$54,989.

Pike County, AO5782, Delaware Township. Bituminous treated macadam surface course. Burgess Brothers & Henry, Fork Union, Pa., \$53,705.50.

Erie County, R-88, A-5923, Mill Creek and Green Townships. One course reinforced concrete. Charles H. Fry Construction Co., Erie, Pa., \$93,443.79.

Armstrong County, R-118, A-5779, Kiskiminetas Township. One course reinforced concrete. A. B. Rothery, Elizabeth, Pa., \$43,529.79.

Westmoreland County, R-117, Sec. 3, Hempfield Township, South Greensburg and Southwest Greensburg Boroughs. One course reinforced concrete. D. C. Shirey & Son, Youngstown, Pa., \$157,438.52.

Lancaster County, R-527, A-5580, Colerain Township. Bituminous treated macadam surface course. York Engineering & Construction Co., York, Pa., \$104,268.08.

Beaver County, R-77, Sec. 4, College Hill Borough. Vitrified brick pavement on concrete base. Millar & Billock, Youngstown, O., \$75,458.94.

Northumberland County, R-18, Milton Borough. One course reinforced concrete. Harry L. Moore, Newberry, Pa., \$23,584.55.

Adams County, R-126, Straban, Mt. Pleasant and Oxford Townships, New Oxford Borough. One course reinforced concrete. Paul R. Hostetter Co., Inc., York, Pa., \$183,967.34.

Allegheeny County, Viaduct, Robison and Moon Townships, over Montour Railroad and Montour Run. Rust Engineering Co., Pittsburgh, Pa., \$86,643.85.

Lebanon County, R-141-B-140-E, Union Township. One course reinforced concrete. D. L. Risser, Lebanon, Pa., \$217,549.59.

Montgomery County, R-143, Upper Merion Township, Bridgeport Borough. One course reinforced concrete. Golden Contracting Co., Otis Building, Philadelphia, \$141,192.77.

Potter County, R-236, A-5574, 5380, Hebron Township. Bituminous surface treated macadam. Lord & Quigley, Millerstown, Pa., \$48,917.02.

Columbia County, R-183, A-5078-A, Locust Township. One course reinforced concrete. Colonial Construction Co., Pittsburgh, Pa., \$85,095.32.

Pennsylvania Contracts Awarded

Spinning Mill, Bloomsburg, Pa. Contract awarded Dresser Co., Cleveland, Ohio. Architects, The Ballinger Co., Twelfth and Chestnut street, Philadelphia. Owners, Magee Carpet Co., Bloomsburg, Pa. Brick, reinforced concrete, 4 stories and basement, 103x268 feet, excavation, reinforced concrete work, cement work, waterproofing, sheet metal skylights, slag roof, steel sash and frames (Lupton or equal), kalamein doors, fire doors, elevator doors, metal partitions, structural steel and iron work, iron stairs, safety treads (Universal or equal), maple floors, caulking, painting, glazing.

Residence and Garage, Swarthmore, Pa. Contract awarded McNeill Construction Co., Schaff Building, Philadelphia. Architect, private plans. Owner, Charles G. Thatcher, 307 Lafayette avenue, Swarthmore, Pa. Stone, 2½ stories and basement, 49x24 feet, garage 22x21 feet, excavation, kalamein doors, flagstone, oak and pine floors, metal lath, plastering, tile and marble work, caulking (plumbing, heating separate bids).

Residence and Garage, Lenape, near West Chester, Pa. Contract awarded M. W. Young, 2037 North Sixty-third street, Philadelphia. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Josephine C. Mather, care of architect. Stone, steel, 2½ stories and basement, irregular in size, shingle roof, oak and pine floors, hot water heat, electric light, tile work.

Mayfield Hall (alts.), Thornbrook and Montgomery avenues, Rosemont, Pa. Contract awarded John McShain, Inc., 1610 North street, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Rosemont College, Rosemont, Pa. Excavation, stone work, brick work, steel sash, plastering, iron work, painting, glazing, slate roof, copper cornices, carpentry and mill work, concrete work.

Funeral Home (alts. and add.), Souderton, Pa. Contract awarded Melvin Nice, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Lesley J. Moyer, Souderton, Pa. Concrete block, stucco, 1 story and basement, 16x36 feet, general interior alterations, new front, cork and tile floors, terrazzo work, slate roof, hot water heat, vault, imitation tile.

Funeral Home, Hatboro, Pa. Contract awarded Stahl & Walton, Willow Grove, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Leon Felty, Hatboro, Pa. Hollow tile, stucco, 2 stories, 48x30 feet, morgue, 22x34 feet, garage, 28x32 feet, hardwood and con-



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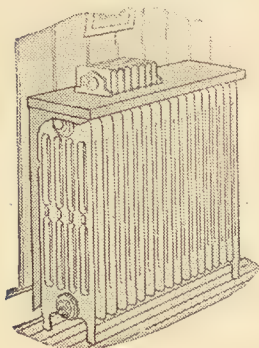
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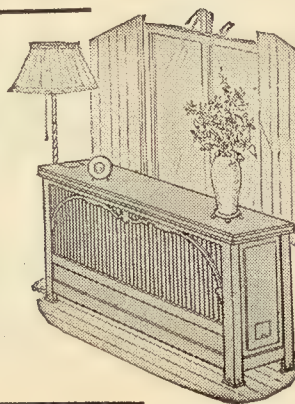
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crete floors, slate roof, plumbing, hot water heat, electric light, tile work.

Church, Allentown, Pa. Contract awarded Arthur Hauser, Emaus, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Evangelical Cong. Church, Rev. G. W. Marquardt, 443 North Ninth street, Allentown, Pa. Brick, steel, 1 story, 65x52 feet, slate roof, concrete floors, area gratings, electric light, cast stone.

Residence, Bethlehem, Pa. Contract awarded George Heller, 719 North New street, Bethlehem, Pa. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Ownes, William Derr, 1724 Elm street, Bethlehem, Pa. Brick, 2½ stories, 30x50 feet, slate roof, hardwood floors, casement windows, electric light, tile work.

Residence and Garage, Clearview road, Elkins Park, Pa. Contract awarded Nasife & Hargesheimer, Willow Grove, Pa. Architect, A. N. Dobbins, 1718 Cherry street, Philadelphia. Owner, C. Walter Brill, care of general contractor. Stone, 2½ stories, 29x63 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Park House and Annex (repairs and painting), Norristown, Pa. Contract awarded Thomas Coyne, Norristown, Pa., \$1,382. Owners, Mary Wood Park Commission, M. F. Moore, president, Norristown, Pa. New floors and rails, mill work, painting.

Plant (add.), \$1,750,000. Swedeland, Pa. Contract awarded Koppers Construction Co., Pittsburgh, Pa. Owners, Rainey Wood Coke Co., care of Allen Wood Co., H. C. Thomas, vice-president, Norristown, Pa. Coke oven, various buildings, concrete, steel, miscellaneous equipment, electric, plumbing.

Residence (alts. and add.), Paoli, Pa. Contract awarded Lowell Gable, Paoli, Pa. Architect, Frank R. Watson, Edkins & Thompson, 1520 Locust street. Owner, James Gay, care of architect. Stone, 2½ stories, carpentry and mill work, plastering, general interior alterations, painting, glazing, cement and concrete work.

Building (add.), Royersford, Pa. Contract awarded David H. Brown, Royersford, Pa. Architect, private plans. Owners, Rising Sun Embroidery Co., Inc., Royersford, Pa. Brick, 1 story, 50x100 feet, slag roof, cement floors, electric light.

Paving, Ridley Park, Pa. Contract awarded James J. Skelly, Ridley Park, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa.

Concrete Paving, approaching Holland Bridge State road, Crum Creek, Pa. Contract awarded F. J. Gillespie, Oakview, Pa., \$2,486. Owners, Commissioners of Delaware County, G. T. Wades, Media, Pa.

Road Work, Pennsylvania. Contract awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Cambria County, R-276, Sec. 10, Viaduct, one course reinforced concrete. A. & J. P. Fogel, Hollidaysburg, Pa., \$88,603.04.

Forest County, R-93, S-4, Tionesta Borough and Township. One course reinforced concrete. Kirkpatrick-Wallis Co., Johnsonburg, Pa., \$116,200.95.

Lycoming County, R-303, A-5491, 5817, Muncy Creek Township. One course reinforced concrete, grading and drainage. Standard Construction Co., Altoona, Pa., \$83,100.10.

Chester County, R-201, Schuylkill Township. One course reinforced concrete. Suburban Construction Co., Ardmore, Pa., \$18,439.60.

Barn (add.), Wayne, Pa. Contract awarded Stewart Hutchinson, Ardmore Park, Pa. Architect, private plans. Owner, Estate of John A. Brown, C. M. Kline, Girard Trust Building, Philadelphia.

Residence, No. 12, Rosemont, Pa. Contract awarded Metzger & Co., Otis Building, Philadelphia.

Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2½ stories and basement, 105x47 feet, slate roof, oak and pine floors (heating and plumbing reserved), electric light, metal lath, tile work, ornamental iron work, casement windows.

Store (alts.), Bristol, Pa. Contract awarded Howard Leister, Croyden, Pa. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, F. E. Bayliss, Bristol, Pa. Brick, new front, plate glass, metal bars.

New Jersey Construction News

Apartments (16), Collingswood, N. J. Plans in progress. Architect, Herbert N. Moffett, 104 Market street, Camden, N. J. Owner, name withheld. Brick, 2 stories, 35x125 feet, slag roof, hardwood floors, tile work.

Apartment Building (18 apartments), West State street, Trenton, N. J. Preliminary plans in progress. Architect, Walter Hankin, 224 East Hanover street, Trenton, N. J. Owners, Rolison & O'Donnell, Trenton Trust Building, Trenton, N. J. Brick, steel, 3 stories.

Club House, four miles from May's Landing, N. J. Architects, Wootton, Haining & Sayres, Chelsea Bank Building, Atlantic City, N. J. Owners, Atlantic Pines Country Club, care of architects. Fireproof, 5 stories, 100 rooms and baths. Plans in progress.

Club House (add.), 26 South Pennsylvania avenue, Atlantic City, N. J. Preliminary plans in progress. Architect, Clifford Clift, 1 South Tennessee avenue, Atlantic City. Owners, Catholic Daughters of America, Mrs. C. Hecker, Jr., on premises. Fireproof.

Apartments (8), Stores (4), Massachusetts and Caspian avenues, Atlantic City, N. J. Plans in progress. Architect, W. S. Hewitt, Guardian Trust Building, Atlantic City, N. J. Owner, name withheld. Brick, steel, 3 stories, 46x67 feet, slag roof, pine floors, hot water heat, electric light, tile work, iron stairs.

Magazine Buildings and Connecting Road (8), Pedricktown, N. J. Owners taking bids due May 3rd, 2 P. M. (Standard Time). Owners, Construction Service Office of Quartermaster General, Delaware Ordnance Department, Pedricktown, N. J. 1 story, 25x40 feet, bond, excavating, concrete work, cement floors, waterproofing, steel and iron work, metal-covered doors, painting, 7,600 feet cinder roadway.

Plant No. 6 (add. Buildings), Trenton, N. J. Architects taking bids due April 30th. Architects, Lockwood & Greene, 1 Pershing Square, New York City. Owners, Trenton Pottery Co., Trenton, N. J. Brick, reinforced concrete, steel, gypsum slag roof, cement floors, rolled steel sash, fire doors, ornamental iron work, cinder concrete block, cork insulation, carpentry and mill work, slag roof, metal toilet partitions, plumbing, painting, glazing, sprinkler system, 5 stories and basement, 63x275 feet, 1 story add., 64x170 feet, 1 story, 46x170 feet.

Apartment House, Magnolia avenue, Camden, N. J. Architects, Morganstein & Kohn, 1271 Magnolia avenue, Camden, N. J. Owners taking bids due April 27th. Owners, National Engineering Co., 700 Chestnut street, Philadelphia. Brick, cast stone, steel, 4 stories and basement, 145x40 feet, 2 wings, 35x36 feet, slag roof, oak and pine floors, steam heat, electric light, tile work, ornamental iron work.

Camden County Court House and Municipal Building, Fifth, Sixth, Market street, Camden, N. J. Low bidders. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Board of Chosen Freeholders, L. H. Ewing, Camden, N. J. F. W. Mark Construction Co., Commercial Trust Building, Philadelphia, \$2,907,133; Karno-Smith Construction Co., Trenton, N. J., \$3,030,000. Electric, Charles S. Wright, 2182 Federal street, Camden, N. J., \$166,200. Plumbing, W. M. Anderson, 600 Schuylkill avenue, Philadelphia, \$119,230. Heating, W. M. Anderson, 600 Schuylkill avenue, Philadelphia, \$328,968.

Road Work, New Jersey. Owners taking bids due May 6th at noon (Daylight Saving Time). Certified check, 10 per cent. Deposit, \$10.00. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Route 47, Sec. 9, Westville to Glassboro, Gloucester County. Excavation, borrow, sheet asphalt surface, reinforced concrete pavement, bituminous concrete.

Route 48, Sec. 22, Downtown to May's Landing, Atlantic County. Excavation, borrow, gravel shoulders, bituminous concrete pavement.

Road Work, New Jersey. Owners taking bids due May 6th at noon (Daylight Saving Time). Certified check, 10 per cent. Deposit, \$10. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Route 29, Sec. 2A, Oakland avenue to Stuyvesant avenue, Union Township, Union County. Excavation, borrow.

THOS. J. MALIA METAL WEATHER STRIPS PORCH ENCLOSURES WOOD, BRONZE AND ROLLING SCREENS CAULKING

Michigan 6800

226-32 W. Mentor Street
PHILADELPHIA

Established 1914

SEPTIC TANKS

FOR HOMES, SCHOOLS, CAMPS AND FACTORIES

CONCRETE FOR PERMANENCE

PHILADELPHIA SEPTIC TANK CO.

1129 GLENWOOD AVENUE

PHILADELPHIA, PA.

Route 37, Sec. 4, Toms River Relocation, Ocean County. Borrow, excavation, wet excavation, gravel shoulders, reinforced concrete pavement.

Road Work, New Jersey. Low bidders. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route 25, Sec. 34B, Matawan and Luppataatong, Monmouth County. Wallace, Faggin & Wall, Millville, N. J., \$68,214.20.

Route 47, Sec. 3, Hunter's Mills to Head of River. Monithan & Hall, Ocean City, N. J., \$58,122.68.

Curbing and Gutter Improvement, Freehold, N. J. Low bidders: New Era Concrete Co., 622 Federal street, Camden, N. J., \$21,165; Nauman & Burtwill, Asbury Park, N. J., \$21,645. Owners, Board of Chosen Freeholders, Peter Runyon, Mayor, Freehold, N. J.

Club House, Cooper, Baird and Bridge Boulevard, Camden, N. J. Plans in progress. Owners will be ready for bids about June 15. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, City Athletic Club, P. H. Harting, Wilson Building, Camden, N. J. Steel, gypsum slab, brick, terra cotta trim, 304 feet, irregular, gymnasium, squash courts, 2 pools, 25x75 feet, 20x60 feet, lockers, dressing booths, ball rooms, dining rooms, etc.

New Jersey Contracts Awarded

Dormitory, Colony for Feeble Minded, New Lisbon, N. J. Contracts awarded. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, steel, brick, stucco, 2½ stories, 200x60 feet, maple floors, asbestos shingle

roof, hollow tile, waterproofing and damp-proofing, wire work, cast stone, blue stone, ornamental iron, iron stairs, caulking. General, J. E. Kolster, Beverly, N. J., \$42,894. Plumbing, Burns, Lane & Richardson, New Brunswick, \$4,725. Heating, George D. Worrell, Mt. Holly, N. J., \$3,848. Electric, Ernest S. Miligan, Mt. Holly, N. J., \$2,019.

Dairy Barn, Colony for Feeble Minded, New Lisbon, N. J. Contracts awarded. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Stucco, steel, 1 story, 60x32 feet, slate and shingle roof, concrete floors, roof ventilators, metal window guards, caulking. General, J. E. Kolster, Beverly, N. J., \$3,725. Plumbing, George C. Worrell, Mt. Holly, N. J., \$415. Electric, Peter Peifer, Trenton, N. J., \$215.

Apartment, South Rhode Island avenue, Atlantic City, N. J. Contract awarded S. Dolinsky & Sons, Commerce Building, Atlantic City. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, I. Levin, care of architect. Brick, steel, frame, 3 stories, 35x78 feet, slag roof, hardwood floors, electric work, metal lath, tile, hollow tile, waterproofing.

Factory (add.), Trenton, N. J. Contract awarded William C. Ehret, Trenton Trust Building, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Thermoid Rubber Co., Whitehead road, Trenton, N. J. Brick, steel, 50x150 feet, slag roof, concrete floors, hollow tile, roof ventilators, fire doors, steel sash, electric light.

Bridge, over Morris avenue, R-23, Sec. 2A, Union County, N. J. Contract awarded Keet Construction Co., Elizabeth, N. J., \$95,529. Owners, State Highway Commission, A. Lee Grover, secretary, State House Annex, Trenton, N. J. Concrete, reinforced steel, structural steel, asphalt block, excavation.

Miscellaneous Construction News

Post Hospital, Fort Leonard Wood, Md. Owners taking bids due April 25th. Owners, War Department, Office Quartermaster General, Fort George Meade, Md. Brick, hollow tile, cast stone, 3 stories and basement, 128x65 feet, wing 26x81 feet, excavation, reinforced concrete, cement floors, waterproofing, tile and marble work, damp-proofing, linoleum floors, slate roof, roof ventilators, kalamein doors, metal tallo-plastering, caulking, elevation, hot water heating, plumbing, electric work.

Delaware-Newark Auditorium, Newark, Del. Architect taking bids. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, University of Delaware, Newark, Del. Marble, brick, fireproof, 1 story and gallery, 72x125 feet.

Church, Eighth street, between Nineteenth and Twentieth, N. W., Washington, D. C. Preliminary sketches being prepared. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Western Presbyterian Church, Rev. J. Harvey Dunham, 2109 G street, N. W., Washington, D. C. Stone.

Residence, Brookville, Long Island, N. Y. Architect taking revised bids due April 30th. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, James B. Clews, 9 Broadway, New York. Limestone, fireproof, 2½ stories, slate roof (hardware reserved), vacuum heat, hardwood and cement floors, tile and marble work, dumb waiter, ornamental iron work, brass pipe, cast stone, bluestone.

Residence, \$30,000. Cincinnati, Ohio. Plans in progress. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Dr. B. N. Carter, Cincinnati, Ohio. Stone, frame, 2½ stories.

THE ORDERLY CHAOS WE CALL BUILDING

*Who Buys the Millions of Pieces of
Material That Are Purchased by
Someone to Build a Forty-
Story Skyscraper?*

BY ALFRED E. FOUNTAIN, JR.

Of Lyddon, Hanford & Kimball, Inc.

At the corner of Thirty-ninth Street and Seventh Avenue, New York, stands a stately building, its steel structure about twelve stories in the air, its white brick and stone shell a few stories lower. So usual is this sight that tens of thousands of people pass it each day without even a glance. But this building is not going up—it is coming down before it is six years old.

Walk a few blocks east to Fifth Avenue and you will see a forty-four story giant rushing toward completion. A thousand men from hundreds of different trades swarm over it. Endless lines of trucks deliver material from daylight to dark. Watch there awhile. Then look up at the sky piercing shaft above you, compute the vast quantities of materials necessary for its construction and wonder how it could all be delivered in an orderly sequence at the required time so as not to inundate the whole neighborhood. While pondering this problem, if you walk around the corner to the other side of the building you will be amazed

CHAPMAN SLATE CO. BETHLEHEM, PA.

ROOFING SLATE EXCLUSIVELY
The Only Manufacturers of Genuine Chapman Slate



AN EXAMPLE OF ART CAEN STONE, WINDOW OF M. CAPLAN, 331 SOUTH ST.

ART { ROMAN TRAVERTINE
CAEN STONE, MARBLE
INDIANA LIME STONE
BRIAR HILL STONE
PLAIN AND ORNAMENTAL PLASTERING.
FLOORS AND WALLS
INTERIOR-EXTERIOR

Ernest A. Pigeon
ARTPLAST
Products
Modeling Studio
4231 FILBERT STREET
BARIing 2155

to see hundreds of empty trucks drive up and leave for the public dump loaded with refuse material.

Now go with me down the narrow canyon streets of lower Manhattan. A canvas sign fastened on some ramshackle old buildings announces the fact that a giant building is to be erected on the site, to be ready for occupancy on a given date not more than a year away. If you notice the sign and if you think at all you wonder how the thousands of tons of materials literally millions of pieces, many of them especially designed and made to occupy a special place in the completed building, can be moved to the narrow site, not to speak of being erected into place. Then to mystify you the more you will probably read in the next Sunday's paper that several large companies have already leased space in the contemplated building which means that they have accepted someone's assurance that miracles will happen and that they are safe in planning for a new home on a certain date.

Not a Mistake

Two months later, if you again visit the site, you will be sure that somewhere there has been a terrible mistake made. There is absolutely no sign of a building being erected unless perhaps it is to be a new kind of building built underground. For nothing but a gigantic hole greets you, swarming with men and littered with all sorts of useless looking second-hand material in endless chaotic confusion. But let me assure you that no mistake has been made and that many things are happening that you don't see. In a Pennsylvania steel mill twenty nearly exhausted draftsmen are working frantically night and day to complete shop drawings for the steel fabricators to work from. A client of my own won't stop to talk about so unimportant a thing as advertising because he and his entire organization are up to their eyes trying to produce the part of the work that they are responsible for. Out in a New Jersey plant I have seen sculptors at work on models for gigantic ornaments that, hundreds of feet in the air, are to dress the exterior of this new building.

Have no fears. This building will be finished in time. That great shambling giant, the building industry, is following what is to him a well-known course—what is to the layman or even casual student an uncharted labyrinth.

Each year on a larger or smaller scale, the scenes I have just sketched are reenacted in over 190,000 places from one edge of our country to the other. In cities, in suburbs, in small towns, in wild places, in public parks, a half million people, later referred to as owners, are spending over \$7,000,000,000 for new construction. Seemingly each undertaking starts in a confusion that breeds greater confusion as the work progresses, yet all are completed and most prove satisfactory. It is an amazing situation. I am only sorry that space demands that I paint the picture with so narrow a brush.

What's It All About?

I am certain that some time in your life you have been a part of the crowd of onlookers that is always present when a new building is under construction. Have you ever been able to make head or tail as to what the work is all about? Perhaps if you will look upon each new building as what it really is—a great assembling plant for the work of thousands of men in hundreds of factories—you will get a clearer understanding. Considering a building as an assembly plant may also help you in your comprehension of what is to the layman the greatest of all mysteries—how is the estimated cost of a building ever arrived at? As one more inexplicable condition that meets the student of the building industry, I will quote from an article appearing last May in *The Saturday Evening Post* and written by that master builder, Col. W. A. Starrett. He says: "When an industry ranks among the first two or three in a great industrial nation and no one engaged in it makes a living except indirectly, something is wrong. The answer is that building, while conducted with a high technical efficiency, is, economically, the most disorganized major activity known to modern business, agriculture perhaps excepted." Then thinking of new construction only he adds this im-

portant thought: "The customer is a customer, usually only once in his life. He rarely knows anything of building, and arm in arm with this ignorance walks suspicion. His intention is to keep his eyes open, buy as cheap as he can and, having a contract, to depend upon the building laws, the architect's inspection, the iron-clad plans and specifications, a surety bond for competition, and, not least, the fact that he has the money and the whip-hand to force the builder to deliver. Actually he invites the contractor to make what he can."

One could fill this entire book with the seemingly unanswerable mysteries of construction clouded in the confusion of the building industry. Then fill a dozen volumes in the history of the industry showing how these very same problems had been met and answered centuries ago, the answers being part of the heritage of the men trained to build.

But as our interest is more centered on the sale of building materials, rather than their assemblage or erection, we will turn from construction to merchandising and see how that phase of the industry looks. The point I ask you to remember about the construction end of the business is that in spite of the amazing chaos that seems to exist, in spite of the fact that there are few written laws of procedure, in spite of the fact that all is based on tradition, yet all new and untried buildings do get built and are more or less successful in the purpose for which they are built. Common sense tells us that there must be some guiding spirit or method that makes possible the great and beautiful buildings we see everywhere. Does it not seem logical to reason then, that if we can only put our finger exactly on this method and can learn its lesson thoroughly, we can apply what we have learned to the sales and merchandising of building products?

Now suppose we take a quick glance at the numerous and complex problems that face us in our attempt to sell building products on a national scale. For the sake of brevity, I have included under the general head of building products, both structural and decorative materials.

DAILY BUILDING NEWS Leads to More Business

You Can Easily See How
By Following Every Morning

Daily Building News
1530 CHESTNUT STREET
PHILADELPHIA

USE

"MILTON"

Deformed Reinforcement Bars

IN ALL YOUR CONCRETE CONSTRUCTION

They Insure Reliability and Durability

All sizes Rounds and Squares conforming to A. S. T. M. specifications

QUICK SHIPMENTS

The Milton Manufacturing Company
MILTON, PENNA.

Philadelphia Agent

PENN STEEL SERVICE CO.

FULLER BUILDING

PHILADELPHIA, PA.

and, to a certain degree furniture, rugs and products that are loosely known as decorative.

If you ask the average manufacturer what constitutes his greatest sales problem he will immediately tell you that is securing proper representation in the field. No manufacturer, no matter what his size or standing, entirely escapes this problem and it is the bane of the company with two or three million dollars annual sale. This trouble is not primarily lack of adequate man-power, but is also due to the fact that many territories will not absorb sufficient goods to pay a good man. The reasons for this may be lack of sufficient preliminary and promotional work, local building slump, local prejudices, local building laws, freight rate handicaps, etc. Given a proved article and proved sales ability, some articles just will not sell profitably in certain sections of this country.

So that when the manufacturer, who has spent a lifetime striving to build a national distribution and knows for a certainty that neither he nor anyone else can accomplish the task, begins to think in terms of national advertising as a sales aid he just can't see how his spotty sales organization and his national advertising are going to function without considerable waste.

Probably right at this point advertising counsel will come into the picture and by research, analysis and persuasion attempt to prove the economics of national advertising. But let the learned counsel beware unless he can thread his way accurately and intelligently through the labyrinth of the entire structure of the building industry. Let him not overlook the mystifying problems of construction; for goods are not sold until they are actually in a building. Let him not overlook the seemingly unsolvable problems of distribution caused by factors too numerous even to mention in this short article. Nor must he forget the mental make-up of his client, the manufacturer—that in the very marrow of this individual's bones is the caution and exactness required by the industry. In building nothing can be taken for granted—theories remain theories until they are proved by actual practice.

But just as successful buildings rise out of the seeming disorder and chaos of building construction, so do successful sales and advertising structures appear from the mysterious entanglements of building-material distribution.

Scientific Marketing is Needed

It is indeed unfortunate that to date these successful advertising campaigns are so few and far between because of the crying need within the industry for the same kind of scientific management in marketing that has been achieved in the field of production. By successful cam-

paigns I mean those that operate without waste and that are otherwise moulded and vamped to meet the requirements of the man who pays for them rather than made to suit the requirements of the council that prepares them.

The point I want to emphasize here is that in spite of the many mystifying problems of distribution, successful building-material advertising campaigns have, are and will be conducted.

Earlier in this article I said that if we could chart out and make articulate the methods and processes that make building construction successful in spite of its apparent handicaps we could apply the answer to the solution of building-material sales problems. The answer is simple in its statement though perhaps hard of comprehension to the lay mind. It is the complete, the inherent understanding that exists between every factor within the industry from the manufacturer, to the contractor, to the architect. It resolves in a co-ordination of effort that accomplishes results in the face of seemingly unsurmountable difficulties. How it comes about I am not exactly certain. Building is an age-old industry in which people have accumulated more or less expert knowledge through long periods of time. It is fraught with much of tradition and conservatism. People in the industry are in it because of a temperamental affinity for it. Once in it they absorb its customs and habits and laws until they function with a unity of purpose based on an understanding of one another's problems.

The three factors whose co-ordinated functioning bring order to construction programs are the architect who creates, the contractor who organizes and constructs, and the manufacturer who produces the materials. This triumvirate who often never see each other, follow customs and unwritten laws and produce successful buildings.

Turning to the sales side of our story we find a new line up of three (and sometimes four) factors that control every purchase of material made in the building industry. It consists of owner, architect and contractor, and in some cases the dealer or jobber. No sale of building material is ever made unless one of these three is at the buying end. Therefore as no building is ever built that does not have either an owner, architect or contractor connected with it but usually has all three, it is quite evident that no sale ever will be consummated unless one or all three are sold.*

*The writer fully realizes the importance of the dealer or jobber in the distribution of many lines of building materials but for the sake of brevity and clarity in this article he feels justified in treating him as a sales aid rather than a buying resistance.

It therefore becomes immediately apparent that economic advertising calls for a direct appeal to all three of those buying powers. And when you get right down to the job of analyzing how this can best be done you will be amazed at the simplicity and ease of the undertaking. You will find a situation the like of which, I believe, exists in no other industry. You will find that having sold the architect and contractor you have sold not 66 2-3 per cent. of the purchasing power of the industry but 80 per cent. of it.

You will find that you can sell these factors without waste of money, time or effort. You will also find that in advertising to the owner, or consumer if you prefer, that he too can in most cases be so analyzed and segregated as to eliminate most of the waste and guess from your effort.

The same precision and orderly sequence that prevails in the construction end of building prevails in its sales end. You will never realize this from standing off and looking at it. From the outside a building is a confused chaos of derricks, trucks, dealers, steam drills, architects, lumber, cement, owners, contractors, without head or tail. On the inside you see an orderly co-operation between a group of individuals who know exactly what they are about. And to the seller of building materials the most interesting part of the entire situation is the fact that the three to four billion dollar purchasing power of the industry lies entirely in the hands of a relatively few thousand men.

WHY ADVERTISE?

Among the questions put and answered by one of the advertising experts during Ceramics Week in Chicago, was why advertise when plants are running full? The answer is to prevent loss of trade to others and the slowing down of business at some near future date. The speaker in this case made his point that advertising and publicity are essential to progress along with research work if we are to harvest the results of our efforts in the future as we should. This is not only a good line of reasoning for the producers of clay products, but it applies equally well to the machinery and equipment men. All recognize and harken to the call to advertise when business is slow and more orders are needed, and most all are inclined to let up on advertising when business is good and orders are fairly plentiful. This is natural but it is not logical. Sound logic points the need for continued advertising that we may have continued prosperity. And this applies to machinery and equipment folks as well as to producers of clay products—*The Clay-Worker*.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co., 20th and Venango Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERING

Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDERS' SUPPLIES

Service Supply Corp., 20th & Venango Sts., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CAULKING

Libman, S., 226 W. Mentor St., Phila.
Malia, Thos. J., 226-32 W. Mentor St., Phila.
Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th and B. & O. R. R., Wilmington, Del.
New Jersey Cast Stone Co., Vineland, N. J.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co., 20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub. Co., 1530 Chestnut St., Phila.

DAMPROOFING

Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.

Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DISMANTLING

Industrial Dismantling Co.,
2500 E. Huntingdon St., Phila.

DOOR BEDS

Murphy Door Bed Co., Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRIC HEATERS

Steinmetz & Co., Inc., 1204 Morris Bldg., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

ELECTRIC SAWS

Crowe Safety Saw Sales Corp.,
515 Real Estate Trust Bldg., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

FIREPROOFING

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc., Camden, N. J.

FLOORING COMPOSITION (Mineral)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co., 24th and Parkway
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.
Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co., Lafayette Bldg., Phila.
Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.
Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

FLUE LINING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

GUARDS (Machine and Engine)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

HEATING CONTRACTORS

Bowers Bros. & Co., 2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H., 27th and Diamond Sts., Phila.
Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.
Simpson-Anderson Co., Widener Bldg., Phila.
Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Henry A. Hitner's Sons Co.,
Gaul and Huntingdon St., Phila.
Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co., 2500 Duncan St., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., N. J.

LUMBER

Ketcham, Howard, 3rd and Girard Ave., Phila.

MARBLE

Frank W. Butterworth, 1518 Walnut St., Phila.

MARBLE AND MOSAIC

Belfi Bros. Co., 1923 Market St., Phila.
Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co., 433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

MASON BUILDER

D'Lauro, John, 7732 Ardleigh St., Phila.

METAL DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

METAL LATH

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

METERS

Phila. Meter Co., Real Estate Trust Bldg., Phila.

PAVING BRICKS

Ketcham, O. W., 121 N. 18th St., Phila.

PHOTOSTATS

Weber, F., Co., 125 S. 12th St., Phila.

PILES

Foundation & Construction Co., 1320 Race St., Phila.

PLASTER (Colored)

California Stucco Products Co., 1600 Arch St., Phila.

PLASTERERS

Keen Bros., Merchantville, N. J.

PLASTERING (Ornamental)

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

PORCH ENCLOSURES

Malia, Thos. J., 226-32 W. Mentor St., Phila.

RANGES

Philadelphia Gas Range Co., 1026 Arch St., Phila.

RADIATOR SHIELDS AND CABINETS

Acme Radiator Shield & Inclosure Co.,
2206 Chestnut St., Phila.

J. D. Gerken Co., 1015 Chestnut St., Phila.

REFRIGERATORS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

REINFORCING BARS

Milton Mfg. Co., Milton, Pa.
Montgomery Iron & Steel Co., 2500 Duncan St., Phila.
Penn Steel Service Co., Fuller Bldg., Phila.

ROAD MACHINERY

Service Supply Corp., 20th & Venango Sts., Phila.

ROLL SCREENS

American Metal Weatherstrip Co.,
2115 Diamond St., Phila.
Malia, Thos. J., 226-32 W. Mentor St., Phila.

ROOFING

John Nacey Co., 7254 Paschall Ave., Phila.
Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING MATERIALS

MacGarvie, James B., Magnolia, N. J.
John Nacey Co., 7254 Paschall Ave., Phila.
Warren-Ehret Co., Luzerne and "E" St., Phila.

ROOFING SLATE

Chapman Slate Co., Bethlehem, Pa.

ROOFING TILE

Ketcham, O. W., 121 N. 18th St., Phila.

SAFETY TREADS (Grating)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

SCAFFOLDING

Patent Scaffolding Co., 2835 Bridge St., Phila.

SCREENS (Fly)

Malia, Thos. J., 226-32 W. Mentor St., Phila.

SEPTIC TANKS

Philadelphia Septic Tank Co.,
1129 Glenwood Ave., Phila.

SEWAGE DISPOSAL SYSTEMS

Chandler & Starr, 119 N. 4th St., Camden, N. J.

SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

SHEET METAL WORK (General)

Strandwitz & Scott, Inc.,
537-49 N. 2nd St., Camden, N. J.

SHEETROCK (Wall Board)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

SHELVING (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

SHOWER CURTAINS

Phila. Blanket Co., Inc., 1015 N. Bodine St., Phila.

SOUNDINGS

Ridpath & Potter Co.,
S. W. Cor. 22nd & Cambria Sts., Phila.

STEEL SASH

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

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TERRA COTTA (Architectural)

Atlantic Terra Cotta Co., Otis Bldg., Phila.
Conkling-Armstrong Terra Cotta Co.,
1600 Arch St., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE

Clausen, Wm. H., 27th and Diamond Sts., Phila.

TILE AND TERRAZZO WORK

Belfi Bros. Co., 1923 Market St., Phila.
Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co., 433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co., 435 Green St., Phila.

TRANSITS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

TRAVERTINE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.

Pigeon, Ernest A., 4231 Filbert St., Phila.

WALL BOARD, COMPO BOARD

Ketcham, Howard, 3rd & Girard Ave., Phila.

WALL BOARD

Ketcham, Howard, 3rd & Girard Ave., Phila.

WALL COPING

Clausen, Wm. H., 27th and Diamond Sts., Phila.

WALL FINISH

California Stucco Products Co., 1316 Olive St., Phila.

WALL PLASTER

California Stucco Products Co., 1316 Olive St., Phila.

WATER HEATERS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

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BUILDING PAPER

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 18
May 1, 1929

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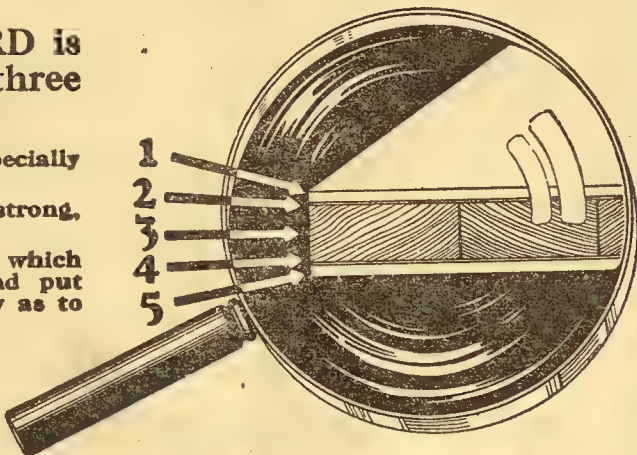
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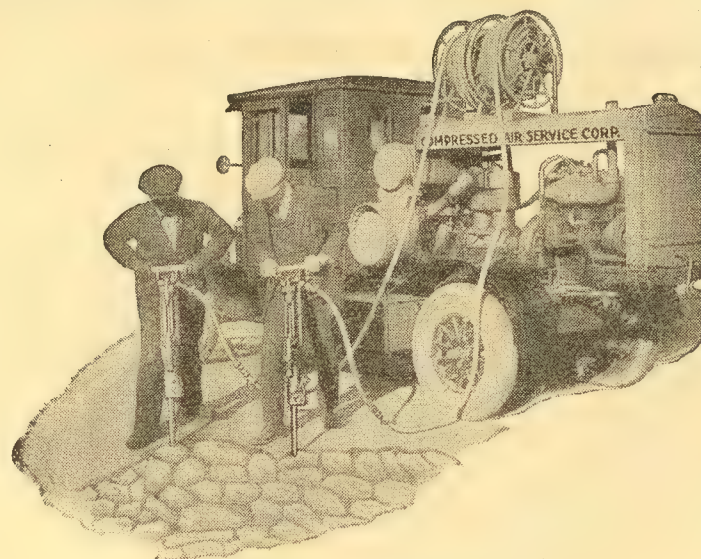
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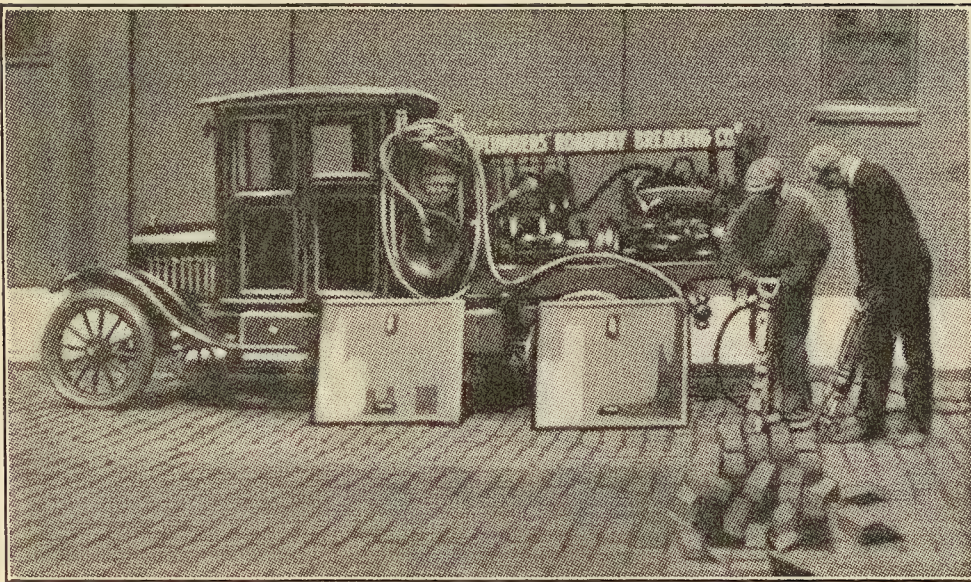
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 18

PHILADELPHIA
May 1, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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1530 CHESTNUT ST., PHILADELPHIA

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H. A. Lang.....Vice-President

Joseph M. DeLone.....Secretary and Treasurer

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Hospital, 4940 Frankford avenue, Philadelphia. Plans in progress. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Frankford Hospital, on premises. Stone, brick, steel, concrete.

Philosophical Hall, \$1,000,000, Parkway at Sixteenth street, Philadelphia. Plans in progress. Architect, Paul Cret, Otis Building, Philadelphia. Owners, American Philosophical Society, Dr. F. X. Dereum, 104 South Fifth street, Philadelphia. Stone, steel, 1 and 2 stories.

Bank (alts.), Germantown and School Lane, Philadelphia. Preliminary plans in progress. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Saving Fund Society of Germantown, on premises.

Residence (alts.), 1834 Delancey Place, Philadelphia. Plans in progress. Architect, Grant M. Simon, 1500 Walnut street, Philadelphia. Owner, Lester Hano, 1418 Walnut street, Philadelphia.

Garage, Twelfth street, North of Grange avenue, Philadelphia. Work contemplated. Too early for details. Owner, Bernard Cannon, Jr., 6507 North Sixteenth street, Philadelphia. Size of lot 40x168x60 feet, irregular.

Auto Show Room (alts. and add.), 4147 Frankford avenue, Philadelphia. Architect taking bids due May 3rd. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owners, Willard Chevrolet Agency, on premises. Brick, steel, 3 stories and basement, carpentry and mill work, plastering, painting, glazing, mineral flooring, plate glass, hardware.

Laboratory Building, Twenty-ninth and

Gray's Ferry road, Philadelphia. Architects taking bids due May 2nd. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Henry Bower Chemical Manufacturing Co., on premises. Brick, steel, 2 stories and basement, 42x28 feet, excavation, concrete and cement work, cork insulation, waterproofing, metal partition, iron stairs, kalamein doors, carpentry and mill work, cellized flooring, caulking, hardware, marble and tile work, painting and glazing, limestone, granite, Carey built-up roof, sheet metal windows.

Parochial School and Chapel, Limekiln Pike and Walnut Lane, Cedar Park avenue, Middleton street, Philadelphia. Architect taking bids. Architect, Thomas J. Early, 402 Harrison Building, Philadelphia. Owners, St. Athanasius' Church, Rev. T. J. Clooney, Limekiln Pike and Walnut Lane, Phila. Stone, concrete, steel, 2 stories and basement, 176x100 feet, slate roof, cement and maple floors, hollow tile, architectural terra cotta, waterproofing and dampproofing, metal lath, tile and marble work, casement windows, ornamental iron work.

City Hall Annex (alts.), Southeast Corner Juniper and Filbert streets, Philadelphia. Owners taking bids due May 7th, 11 A. M. (Eastern Standard Time). Owners, Department of Public Works, Bureau of City Property, City Hall. City architect, W. S. Covell, City Hall Annex, Philadelphia. Certified check, 5 per cent. No. 1—Alts. and add. to City Hall Annex. No. 2—Plumbing.

Residence (alts.), 1137-39 Pine street, Philadelphia. Will be ready for sub-bids after

May 1st. Architect, I. Demchick, 1701 Chestnut street, Philadelphia. Owner, B. Bornstein, Juniper and Walnut streets, Philadelphia. Brick, steel, 4 stories, general alterations.

Residence and Garage, Sixth and Cheltenham avenue, Philadelphia. Plans about completed. Architect will be ready for general bids May 2nd. Architect, Clarence L. Caspary, 170 Walnut street, Philadelphia. Owner, Hugh Hamilton, care of architect. Stone, 2½ stories, 54x40 feet, 24x24 feet, variegated slate roof, hardwood floors, hot water heat, electric light, tile work.

Apartment House, Cliveden and Musgrave streets, Philadelphia. Owners taking sub-bids. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owners, Sentford Apartments, Inc., care of Samuel Ketnek & Co., Southeast Corner Fifteenth and Walnut streets, Philadelphia. Brick, steel, limestone, 4 stories, 112x143 feet, hardwood floors, linoleum, elevators, electric light, metal lath, tile work, steam heat, steel sash.

School (add.), 6300 Rising Sun Ave., Lwandale, Pa. Architect taking bids due May 7. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. William's Roman Catholic Church, Rev. A. C. Grady, Lawndale, Pa. Stone, 2½ stories and basement.

Residences (27), Sixty-fifth and Elmwood avenue, Philadelphia. Owner taking sub-bids. Architect, Joseph F. Lowery, Land Title Building, Philadelphia. Owner, T. F. Gallagher, Sixty-fifth and Elmwood avenue, Philadelphia. Brick, 2 stories, 15x38 feet, hot water heat, electric light, tile work, slag roof, hardwood floors.

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St. Barbara's Chapel and School, Lebanon avenue and George's Lane, Philadelphia. Architect will be ready for bids in one week. Architect, Peter F. Getz, Victory Building, Philadelphia. Owner, D. Cardinal Dougherty, Eighteenth and Summer streets, Rev. Joseph L. N. Wolfe, T. S., S. J., C. B., on premises. Stone, 2 stories and basement, 58x106 feet, limestone and cast stone, fireproof, slate roof, plumbing, heating, electric, metal stairs.

Building (alts. and add.), \$250,000. Northeast Corner Germantown and Cumberland street, Philadelphia. Owners taking sub-bids. Architects, Francesco & Jacoby, 511 Fifth avenue, New York. Owners, Cushman Sons Co., Inc., care of Mr. Spear, 1015 West Lehigh avenue, Philadelphia. Brick, 4 stories, 21x50 feet, general renovation of present building.

Apartment House, Southeast Corner Fortieth and Spruce streets. Philadelphia. Architect taking sub-bids. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owner, name withheld. Brick, steel, limestone, terra cotta, alternate terra cotta, 4 stories, 50x145 feet, slag roof, hardwood and linoleum floors, oil burners, vapor heat, electric light, tile and marble work, screens, weather stripping, kitchen equipment, incinerators, 1 elevator.

Residences (50), Teesdale, between Cottage and Walker streets, Philadelphia. Owners will build and are taking sub-bids on first twenty-five. Owners, James J. Spear and George Sinclair, Room 401, 133 South Twelfth street. Brick, 2 stories, 60x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work.

Residences (30), Rutland street, Magee and Unruh streets, Philadelphia. Owner will build and is taking sub-bids. Architect, J. E. Sindoni, Norwood and McKean streets, Philadelphia. Owner, Harry Morrison, 514 Ritner street, Philadelphia. Brick, 2 stories, 16x49 feet, slag and tile roof, hardwood floors, hot water heat, electric light, tile work.

Passenger Station, Contract No. 4. Freight Station, Contract No. 5. Manayunk, Philadelphia. Low bidders. Engineer, Clarke Dillenback, Reading Terminal, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Contract No. 4—O'Neill Co., 127 East Mermaid lane, Philadelphia, \$84,264; Robbins Contracting Co., 1137 North Front street, Philadelphia, \$94,498. Contract No. 5—O'Neill Co., 127 East Mermaid lane, \$80,877; Jaffola & Marks, Brouse avenue and Tyson street, Philadelphia, \$109,439. Brick, steel, passenger station, 1 story, 90x33 feet, freight station, 1 story, 92x30 feet, concrete, cement, granite, terra cotta, slate roof and asbestos built-up roof, metal lath.

Apartment House, \$200,000. 472-74 Roxborough avenue, Philadelphia. Permit issued. Ar-

chitect, private plans. Owner, Violet A. Trepanier, 472 Roxborough avenue, Philadelphia. Brick, 4 stories, 60x211 feet, slag roof, hardwood and pine boars, steam heat, electric light, tile work.

Residences (19), \$67,500. West side J street, South of Pike street, Philadelphia. Permit issued. Architect, private plans. Owner, Nathan Epstein, 247 East Loudon street, Philadelphia. Brick, 2 stories, 15x28 feet, 11x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (8), \$36,000. South side Stanwood street, West of Rowland street, Philadelphia. Permit issued. Architect, private plans. Owner, Hyman Korman, Oxford avenue and Levick street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, pine floors, hot water heat, electric light.

Residence. 9135 Green Tree road, Philadelphia, \$20,000. Permit issued. Architect, private plans. Owner, Judson M. Zane, 534 Land Title Building, Philadelphia. Stone, 3 stories, 25x38 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (2), \$10,000. Southwest Corner Loretto and Princeton streets, Philadelphia. Permit issued. Architect, private plans. Owner, William H. Wagner, 306 Unruh street, Philadelphia. Brick, 2 stories, 16x47 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (22), \$110,000. Elsinore street, South of Pike street, Philadelphia. Permit issued. Architect, private plans. Owner, Harry Platt, 1211 Chestnut street, Philadelphia. Brick, 2 stories, 15x26 feet, 11x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (15), \$67,500. South side Comly street, West of Howell street, Philadelphia. Permit issued. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owners, Brinkmann & Hoover, 4432 Frankford avenue, Philadelphia. Brick, 2 stories, 18x25 feet, 14x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Stacks (2), \$2,000. North side Penrose Ferry road, East of Schuylkill River. Permit issued. Owners, Gulf Refining Co., Box 1567, Philadelphia. Brick, radial, 3 feet 6 inches x 70 feet.

Residence (add. and alts.), \$3,000. 4809 Beaumont avenue, Philadelphia. Permit issued. Architect, William A. Young, 253 South Ninth street, Philadelphia. Owner, P. E. Glassman, 5489 Morse street, Philadelphia. Brick, 2 stories add., 22x16 feet, general alterations.

Synagogue, Southwest corner 52nd and Columbia avenue, Philadelphia. Architect ready for bids, on revised plans, from a selected list of bidders. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Shaari Zedok

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Congregation, care of A. D. Caesar, Esq., 1321 Arch street, Philadelphia. Brick, caststone. steel, built-up roof, cement floors, metal lath, tile work, hollow metal sash and doors, iron work, wall finish.

Residence, \$7,000, 6521 North 4th street, Philadelphia. Permit issued. Architect. private plans. Owner, Wm. Shoemaker, 5726 N. Mascher street, Philadelphia. Stone, 2 stories, 27x35 feet, hardwood and pine floors, electric light, hot water heat.

Garage (repairs), \$3,000, S. E. Cor. Gaul and Elkhart streets, Philadelphia. Permit issued. Architect, private plans. Owner, D. J. Potter, 6932 Ditman street, Philadelphia. General fire repairs.

Club House, Ontario street, between Rand and Argyle street, Philadelphia. Architect taking bids due May 4th at noon. Architects, Gleeson & Mulrooney, 250 South Broad street, Philadelphia.

Residences and Garages (42), Greeby between Frankford and Erdrick streets, Philadelphia. Plans in progress. Owners will build. Owners, Boardman & Smith, 1524 Chestnut street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heat, electric light.

Day & Zimmerman, engineers, 112 North Broad street, Philadelphia, taking bids due May 3rd on approximately 50 high grade lime and steel floor arch pan forms.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Manufacturing Building, Roberts and Wayne avenue, Wayne Junction, Philadelphia. Contract awarded Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Brown Instrument Co., on premises. Brick, steel, concrete, 2 stories and basement, 219x79 feet, demolition, excavation, concrete and cement floors, monolithic floors, caulking, terra cotta coping, asphalt shingle roof, slag roof, waterproofing, sheet metal skylights, steel sash, kalamein and tin-clad doors, rolling steel stairs, safety treads, linoleum, metal lath, plastering, acoustical work, painting, glazing, hardware (plumbing, heating, electric, elevators, equipment reserved).

Factory (alts. and add.), 4901 Stenton avenue, Philadelphia. Contract awarded W. R. Dougherty, 1608 Sansom street, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Leeds & Northrup, on premises. Reinforced concrete, brick, 2 stories and 3 stories, 57x56 feet, slag roof, general alterations and add. cement work.

Wards A and J, Conversation Hall Ext., Holmesburg, Pa. Contracts awarded. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Philadelphia County Prison, Tenth and Reed streets, Philadelphia. Wark Co., 1600 Walnut street, Philadelphia, \$266,890; plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$23,466; heating, McClintock & Co., 5608 Race street, Philadelphia, \$42,195; electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$6,575.

Ninth Floor, City Hall Annex (alts.), Juniper and Filbert streets, Philadelphia. Contract

awarded McCormick-Lenham, Fortieth and Chestnut streets, Philadelphia, \$12,582. Architect, W. S. Covell (city architect), City Hall Annex, Philadelphia. Owners, Bureau of Highways, Department of City Property, City Hall Annex. Linoleum floors, plastering, tile and marble work, metal partition, hollow metal doors and trim, hollow tile, hardware, painting.

Miscellaneous Work, First Floor, Thirty-third and Arch streets. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Estate of E. S. Wilford, Otis Building, Philadelphia. Contracts awarded: Electric, Walker-Kepler, 531 Chestnut street, Philadelphia. Plumbing and heating, William Newell, 2035 Arch street, Philadelphia. Sprinklers, Stewart A. Jellett, 1200 Locust street, Philadelphia.

Building (alts. and add.), Mellon street, East of Seventeenth street, Philadelphia. Contract awarded P. Haibach Contracting Co., 1261 North Twenty-sixth street, Philadelphia, who are taking sub-bids due May 1st. Architect, private plans. Owner, name withheld. Brick, steel, reinforced concrete, 2 stories and basement, 40x28 feet, 1 story, 50x117 feet, gypsum slag roof, cement floors, steel shutters, rolled steel sash, fire doors.

Loft Buildings, \$140,000, 1016-18 Cherry street, Philadelphia. Contract awarded William Steele & Son, Fifteenth and Cherry streets, Philadelphia. Architect, Arthur Love, Juniper and Walnut streets, Philadelphia. Owners, Cherry Building Corporation, care of architect. Brick, reinforced concrete, 8 stories

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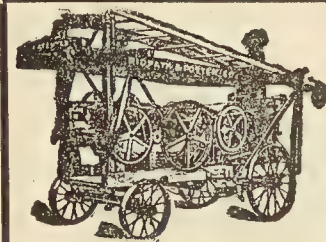
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and basement, 45x65 feet, slag roof, cement floors, steam heat, electric light.

Building (alts. and add.), \$8,000. 1708 Locust street, Philadelphia. Contract awarded Jacob Myers Sons Co., 5100 Lancaster avenue. Architects, Ritter & Shay, Packard Building, Philadelphia. Owner, Edward Lower Stokes, 1500 Chestnut street, Philadelphia. Brick, 1 story, 16x20 feet, bulk windows, carpentry and mill work, plate glass, painting, glazing, steel partitions.

Residences and Stores (4), \$31,000. South side Cheltenham avenue, West of Beechwood street, Philadelphia. Contract awarded H. Altermann, 2731 West Somerset street, Philadelphia. Architect, private plans. Owner, William Levin, 1527 Widener Place, Philadelphia. Brick, 2 stories, 17x51 feet, 14x9 feet, slag roof, electric light.

Service Station (add.), \$15,000. Rear of 4605 North Fifth street, Philadelphia. Contract awarded Supper & Foster, 5440 North Mascher street, Philadelphia. Architect, private plans. Owner, Joseph L. Doan, on premises. Brick, 1 story add., 100x99 feet, slag roof, cement floors.

Garage, \$2,800. East side Keyser street,

South of Price street, Philadelphia. Contract awarded I. A. Dunkelberger, 71 Herman street, Philadelphia. Owner, Gregory Marche, Price and Knox streets, Philadelphia. Brick, 1 story, 20x59 feet, slag roof, cement floors.

Residence and Garage, \$7,300. Northeast Corner Wakeling and Valley streets, Philadelphia. Contract awarded E. M. Carlston, 4317 Comly street, Philadelphia. Architect, private plans. Owner, Paul Lucas, Tacony, Philadelphia. Brick, 2 stories, 11x32 feet, 23x17 feet, hot water heat, electric light, hardwood, pine and cement floors, garage, 1 story, 27x18 feet.

Service Station, Northwest Corner Belfield and Rockland streets, Philadelphia. Contract awarded E. C. Haldeman, 3438 North Twentieth street, Philadelphia, \$3,000. Architect, private plans. Owners, Fidelity Gas Station, 1015 Chestnut street, Philadelphia. Brick, 1 story, 16x10 feet, cement floors.

Storage Building, \$17,000. East side Stokley street, South of Abbottsford road, Philadelphia. Contract awarded M. Moister & Co., Second and Bristol streets, Philadelphia. Owners, Atwater Kent Manufacturing Co., Wissahickon avenue and Abbottsford road, Philadelphia. Iron.

Club (add.), \$9,000. 2404 Orthodox street, Philadelphia. Contract awarded John H. Rackie, 4341 Frankford avenue, Philadelphia. Architect, private plans. Owners, Polish-American City Club, on premises. Brick, 2 stories add., 22x40 feet, slag roof, electric light.

Residence (add.), \$6,000. 6223 Burbridge street, Philadelphia. Contract awarded J. W. Moffley, Third, Germantown avenue and Bethlehem pike, Philadelphia. Architect, private plans. Owners, Florence Crittenden Home, on premises. Brick, second story add., 15 feet 6 inches x 14 feet and 46x14 feet.

Grandstand, \$2,000. Northeast Corner Thirtieth and Lancaster avenue, Philadelphia. Contract awarded Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia. Owners, Indoor Horse Show, on premises. Frame.

Shop and Studio, \$20,000. Southwest Corner Fourth and Olive streets, Philadelphia. Contract awarded Paul Brosz, 2515 West Huntingdon street, Philadelphia. Architect, private plans. Owners, Segal & Co., Fourth and Fairmount avenue, Philadelphia. Brick, 2 stories, 55x32 feet, slag roof, electric light.

Garage, \$12,000. 1312-14-16 North Marsden street, Philadelphia. Contract awarded R. McGlathery, 2306 North Twenty-sixth street, Philadelphia. Architect, private plans. Owner, Samuel Parvis, 2624 Master street, Philadelphia. Brick, 1 story, 62x100 feet, slag roof, cement floors, electric work.

Garage, \$9,000. 1712-14 Blavis street, Phil-

adelphia. Contract awarded Austin Co., 1220 Jefferson street, Philadelphia. Architect, private plans. Owners, Holland Laundry, Seventeenth and Cayuga streets, Philadelphia. Brick, 1 story, 47 feet 6 inches x 86 feet 7 inches, slag roof, cement floors.

Gymnasium, \$7,700. 6061 Drexel road, Philadelphia. Contract awarded Di Polveri & Cietta, 347 North Sixty-fourth street, Philadelphia. Architect, J. H. Walker, care of owner. Owner, Mrs. Jeanette D. Sayward, on premises. Stone, 2 stories, 30x70 feet.

Ice Storage, \$6,500. 319-21 North Preston street, Philadelphia. Contract awarded E. R. Hall, 34 South Seventeenth street, Philadelphia. Architect, private plans. Owners, Standard Ice Co., Twenty-seventh and South street, Philadelphia. Cinder block, 1 story, 33x36 feet.

Store and Residence (alts.), \$2,000. 1352 South street, Philadelphia. Contract awarded Mitchell Brothers, 2125 Race street, Philadelphia. Owner, A. L. Weaver, Fairmount and Corinthian avenues, Philadelphia. General alterations.

Manufacturing Building, \$14,000. 1926-28-30 East Venango street, Philadelphia. Contract awarded Wintz Brothers, 1618 Sellers street, Philadelphia. Owners, Schlosser Brothers, 3619 Emerald street, Philadelphia. Brick, 1 story, 40x101 feet, 50x200 feet.

Stores (add.), \$10,000. Southeast Corner Ninth and Arch streets, Philadelphia. Contract awarded S. Yellin & Son, 222 North Eleventh street, Philadelphia. Architect, Harrison Bohrer, 1032 North Sixty-seventh street, Philadelphia. Owners, Dobson Estate, 812 Chestnut street, Philadelphia. Brick, second story add., 58 feet 7 inches x 73 feet 3 inches, electric light.

Warehouse, \$4,500. 810 South Lawrence street, Philadelphia. Contract awarded Schector & Levitt, 702 Snyder avenue, Philadelphia. Architect, Benjamin Schulman, 1722 Arch street, Philadelphia. Owner, H. Silverstein, 813 South Fifth street, Philadelphia. Brick, 2 stories, 18x38 feet, slag roof, electric light.

Residences (16), \$73,600. Hoffnagle street, East of Frontenac street, Philadelphia. Contract awarded J. Charles Yundt, 301 Tabor road, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, The Bethel Co., 301 West Tabor road, Philadelphia. Brick, stone, 2 stories, 16x37 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Office and Shop (add.), \$9,900. 1720 Callowhill street, Philadelphia. Contract awarded C. L. Hemmerle & Son, Oak Lane, Philadelphia. Architect, private plans. Owner,

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George F. Pettinor, 1206 Locust street, Philadelphia. Brick, 1 story add., 26x62 feet, electric light, slag roof.

Cemetery Wall, East side Fifth street, North of Manning street, Philadelphia. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia. Owners, Trustees of St. Mary's Church, Fourth and Manning streets, Philadelphia.

Garage, Southeast Corner Eighth and Kenilworth streets, Philadelphia, \$3,800. Contract awarded William W. Johnston, 1606 Swain street, Philadelphia. Architect, private plans. Owner, Thomas J. Carney, on premises. Tile, 1 story, 25x23 feet, cement floors, electric light.

Residence, \$3,500. West side Weymouth street, South of Cheltenham avenue, Philadelphia. Contract awarded Smith & Hallstrom, 7943 Oxford street, Philadelphia. Architect, private plans. Owner, J. J. Mooney, 7944 Oxford street, Philadelphia. Brick and frame, 2 stories, 16x44 feet, hot water heat, electric light, hardwood and pine floors.

Garage and Shop, \$2,000. Rear of 715-17-19 North Eighth street, Camden, N. J. Contract awarded Harry Brown, 514 Lawrence street, Camden, N. J. Architect, private plans. Owner, George Austermuhl, 717 North Eighth street, Camden, N. J. Block, 2 stories, 14x47 feet, slag roof, cement floors.

Store and Office (Elevator Shaft), \$3,000. Southeast Corner Twelfth and Chestnut streets, Philadelphia. Contract awarded Frank G. English, 1606 North Carlisle street, Philadelphia. Owner, Erstine Bains, 1028 Chestnut street, Philadelphia.

Miscellaneous Work, Philadelphia. Contracts awarded. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Wissahickon High Level, in Stockley street, H. W. Horst Co., 6800 State street, Tacony, \$169,835. Sewage Disposal Project, Kirkland street, J. & R. Lombardi, 1637 South Broad street, Philadelphia, \$20,623. Princeton street, J. T. McDonald, 2313 Front street, \$20,909.50. Sanger street, J. & R. Lombardi, 1637 South Broad street, \$15,420. Branch Sewers, Maryland road, Vincent Ventresco, 6016 Ross street, Philadelphia, \$10,483.85.

Miscellaneous Work, Philadelphia. Contracts awarded. Owners, Bureau of Highways, Department of Public Works, Philadelphia. Brid, Prill, Saul, Penn, etc., Joseph Herzog, 4314 York road, Philadelphia, \$589.75. C, Lippincott, Venango, Ontario, Tioga, etc., Duffin Brothers, Penn and Womrath streets, \$1,058.88. Foulkrod, Summerdale to Roosevelt Boulevard, Marion Masse, 3936 North Reese street, Philadelphia, \$644.26. Hawthorne, Knorr, Levick, Hellerman, Unruh, etc., Joseph

Herzog, 4314 York road, Philadelphia, \$6,602.40. Levick, Walker to Cottage, Joseph Herzog, 4314 York road, Philadelphia, \$1,675.09. Ontario, Well, Miller, Westmoreland, etc., Duffin Brothers, Penn and Womrath streets, \$525.35. Reach, Courtland and Wyoming, Joseph Cicone, 5732 Westminster avenue, \$3,150.44. Solly, Summerdale to Algon, Dewees Brothers, Shelborne and Vincent streets, \$1,172. Spencer, Broad to Camac, Marino Masse, 3936 North Reese street, \$4,308.84. Tulpehocken, Seventy-fifth to Cheltenham, S. C. Rotzell, Limekiln pike and Haines street, \$2,614.92. G, Venango, A to B, Joseph Cicone, 5732 Westminster avenue, \$2,945.26. Fifty-second, Woodland to Paschall, Philadelphia Exc. Co., 2819 West Gordon street, \$5,192.80. Country road improvement, Bleigh, Shelmire, etc., F. A. Canuso & Son, 804 South Twelfth street, \$3,754.40. Paint Broad Street Bridge over the Reading, T. R. Hauff & Co., Real Estate Trust Building, \$2,599. Furnish and erect smoke sheathing, etc., Tri-State Construction Co., Finance Building, \$1,545. Renewal of scuppers, Spring Garden Street Bridge, Tri-State Construction Co., Finance Building, \$1,985.

Stores. 2061-63 East Cheltenham avenue, Phila., Contract awarded H. G. Walters, 412 North 40th street, Philadelphia. Architect, E. A. Stopper, 10 South 18th street, Philadelphia. Owner, Charles Kahn, Southeast corner 17th and Chestnut streets, Philadelphia. Lessee, Almar Stores, Inc., 17th and Ridge avenue, Philadelphia. Brick, steel, 1 story, 40x95 feet, slag roof, pine and cement floors, hot air heat, electric light, metal lath, tile work, copper bars, ornamental iron work, plate glass, plumbing.

Plumbing and Heating of School, 22nd and Clearfield streets, Philadelphia. Contract awarded Frank J. Currie, Kirklyn, Pa. Architect, H. Rex Stackhouse and W. W. Donohoe, 266 South 15th street, Philadelphia. Owners, St. Mary's R. C. Church, Rev. F. Bernardo, on premises.

Store (alts.), 732 Market street, Philadelphia, \$6,000. Contract awarded Harry R. Rust, Inc., 19 South 8th street, Philadelphia. Architect, private plans. Owners, Horn & Hardart Baking Co., 208 South Warnock street, Philadelphia. General alterations.

Silverman & Levy will be in their new offices on the 9th floor of the Bernley Bldg., N. E. Cor. 13th and Chestnut Sts., Phila., on and after May 1st.

Ralph Bencker, Architect, has opened offices at 1601 Crestnut St., Philadelphia.

Clarence L. Caspary, Architect, has moved to 1701 Walnut St., Philadelphia.

Pennsylvania Construction News

Residence (alts.), Orchard Way, St. David's, Pa. Plans in progress. Architect, Richard W. McCaskey, Otis Building, Philadelphia. Owner, C. W. Drummon, Wayne, Pa. General alterations.

Residence, South side of road between Valley Green and Stenton avenue, Whitemarsh, Pa. Owner, Albert L. Freeman, 1808 Chestnut street, Philadelphia. 1½ acres. Work contemplated. Architect not yet selected.

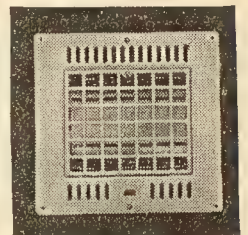
High School (add.), Mechanicsburg, Pa. Preliminary plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Mechanicsburg School Board, Mechanicsburg, Pa. Brick.

Recitation Building, Chambersburg, Pa. Plans in progress. Project to mature shortly. Architects, Ludlow & Peabody, 101 Park avenue, New York City. Owners, Wilson College, Chambersburg, Pa. Stone, east stone trim, 2½

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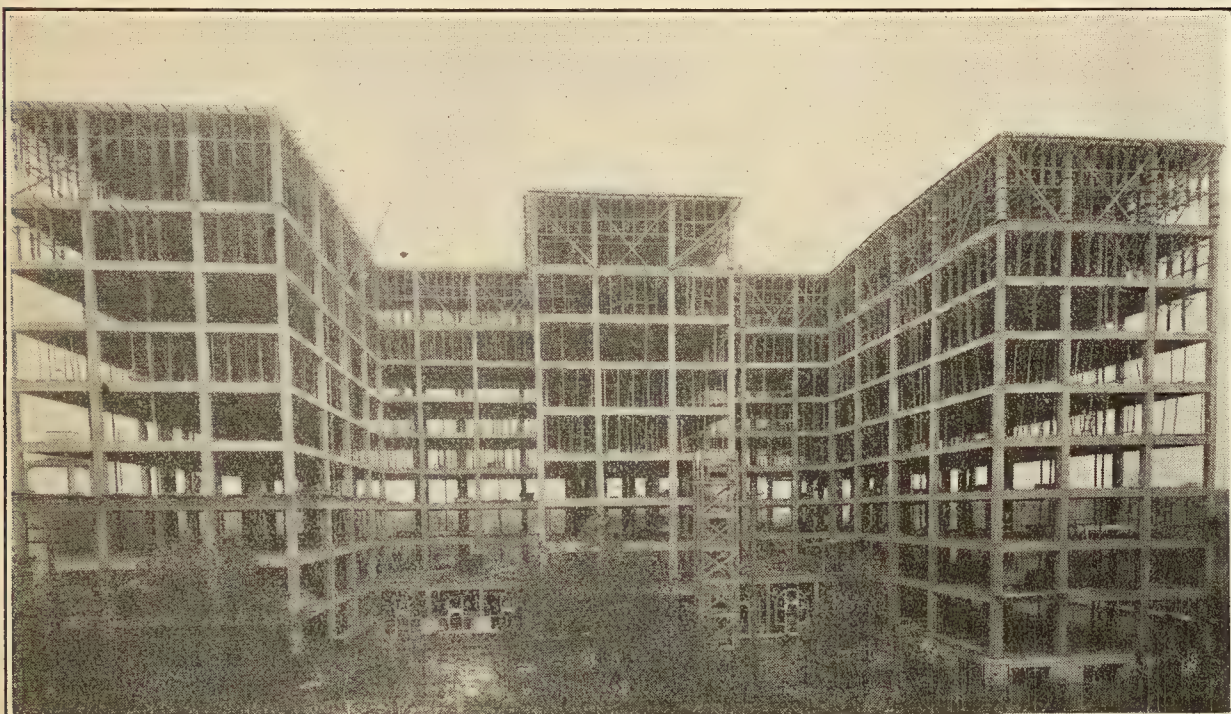
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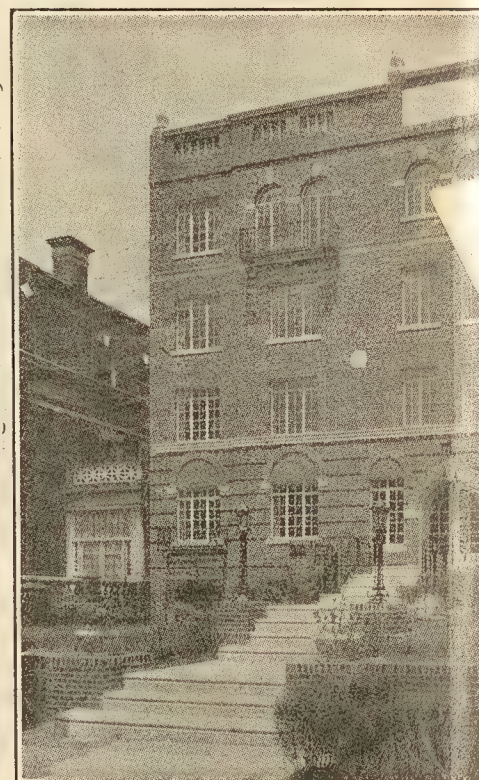
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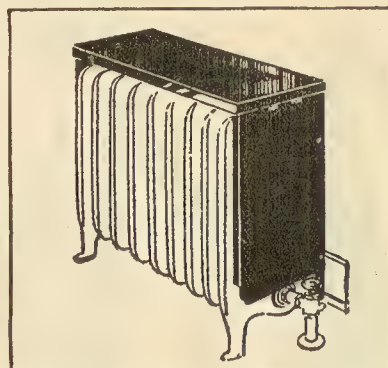
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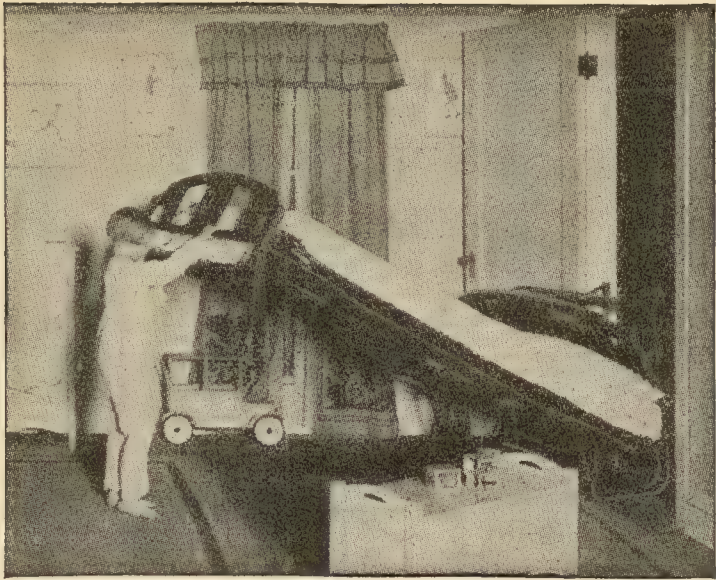
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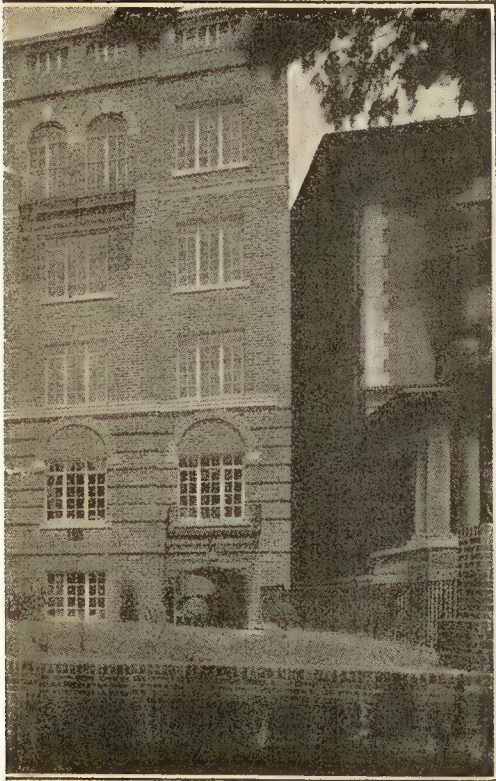
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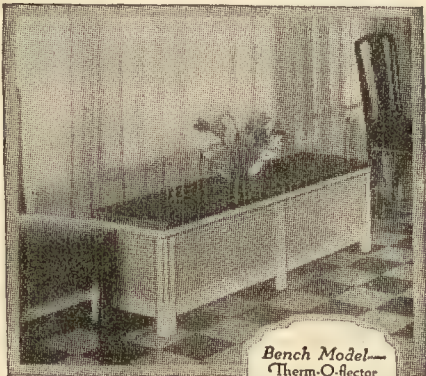
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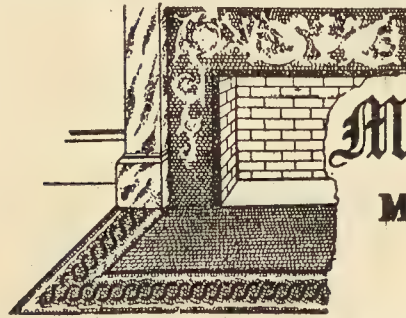
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stories and basement, 54x122 feet, metal casement windows, slate roof.

School Buildings and Renovating Present Building, Haverford, Pa. Preliminary sketches prepared by Zantzing, Borie & Medary, Otis Building, Philadelphia. Owners, Haverford College, Dr. Edwin M. Wilson in charge; W. Logan MacCoy, Commercial Trust Building, Philadelphia.

Church, Fifth street, Harrisburg, Pa. Plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Fifth Street Methodist Episcopal Church, David Wise, Harrisburg, Pa. Brick, third story, 40x120 feet, maple floors, kitchen equipment, showers.

High School (add.), \$75,000. Lemoyne, Pa. Plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Lemoyne School Board, Mrs. J. E. Beale, president, Lemoyne, Pa. Brick, steel, 1 story, composition roof, maple floors, hollow tile, roof ventilators, bond, metal partitions, rolled steel sash, metal lath (heating, plumbing and electric separate).

Residence, East Petersburg, Pa. Plans in progress. Owner will take bids. Architect, J.

W. Minick, 23 North Third street, Harrisburg, Pa. Owner, M. S. Sahn, 930 North Third street, Harrisburg, Pa. Brick, 1½ stories, 38x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile work.

Country Club, Reading, Pa. Architect selected. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading Country Club, Philadelphia road, Reading, Pa.

Sunday School, Hershey, Pa. Preliminary plans in progress. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Derry Presbyterian Church, Hershey, Pa. Stone, 2 stories.

Club (add. and alts.), Reading, Pa. Preliminary plans in progress. Architect, Wayne M. High, 230 North Sixth street, Reading, Pa. Owners, Polish Political Club, care of architect. Brick, steel, 2 stories, 30x50 feet.

Church, Lancaster, Pa. Plans in progress. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Andrew's Reformed Church, J. P. Sherry, Lancaster, Pa. Brick, limestone, steel, 1 story and basement.

Apartment House, 147 Cricket avenue, Ardmore, Pa. Architect ready for general bids. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owner, M. S. Brook, care of architect. Brick, stucco, 3 stories, 24 apartments.

Residence and Garages (2), Laurel lane, Griseom Tract, Haverford, Pa. Owner will build. Architect, Walter K. Durham, 312 South Broad street, Philadelphia. Owners, Durham & Irvine, 312 South Broad street, Philadelphia. Stone, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile work.

Residence and Garage, Glenview road near Hillbrook road, Haverford, Pa. Plans about completed. Owner will build and will be ready for sub-bids in one week. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Harry J. McLean, 521 North Fifty-second street, Philadelphia. Stone, clapboard, 2 stories, irregular in size, slate or tile roof, hot water or vapor heat, electric light, tile work.

Mausoleum, Upper Darby, Pa. Owners will build. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Montrose Mausoleum Co., Highland Park, Upper Darby, Pa. Stone, leaded glass, tile, marble, bronze.

Apartment House, Long lane and Brent road, Upper Darby, Pa. Owners taking sub-bids. Engineer, Morris Fruchtbaum, 5114 Mebus street, Philadelphia. Owners, Bobb & Bobb, Forty fifth and Sansom streets, Philadelphia. Brick, steel, limestone, 4 stories, 140x130 feet, slag roof, vapor heat, electric light, oil burners, tile work, hardwood and linoleum floors, elevators, electric refrigeration and incinerator.

Junior High School, Abington, Pa. Plans ready for bidders May 20th. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Abington School Board, G. Oberholtzer, Glenside, Pa.

Grade Schools (2) (add.), Laurel Bend, Croyden, Pa. Owners ready for new bids due May 25th. Architect, Charles N. Jester, 141 South Fifty-second street, Philadelphia. Owners, Bristol Township School Board, E. A. Smith, Newportville, Pa. Deposit, \$15 each, on general. Deposit, \$10 each, on heating, plumbing, lighting, ventilating.

Residences (20), Yeadon, Pa. Owner will build and is taking sub-bids. Architect, John E. Sindoni, Norwood and McKean streets, Philadelphia. Owner, Abraham Paul, 2122 North Fifty-seventh street, Philadelphia. Stone, hollow tile, stucco, 2 stories, (8) 60x16 feet, (12) 52x18 feet, slate roof, hardwood floors, cement floors, electric light, tile.

Residences and Garages (16), Roberts road and Stow avenue, Elkins Park, Pa. Unit of first three started. Owners will build. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, J. J. & E. S. Radley, 8211 Manor road, Elkins Park, Pa. Concrete block, stucco, brick, stone, 2½ stories, 21x40 feet, 26x48 feet, various sizes, slate, asbestos shingle roof, hardwood floors, hot water heat, one oil burner, electric light, tile work.

School, Friedensburg, Pa. Owners taking bids due May 4th. Architects, Scholl & Richardson, 510 Walnut street, Reading, Pa. Owners, Oley Township School Board, I. S. Rothenberger, Limekiln, Pa. Brick, steel, 2 stories and basement, 134x150 feet, maple floors, safety treads, roof ventilators, metal lath, steel sash, bond (heating, plumbing and electric separate).

High School, Cressona, Pa. Owners taking bids (revised) due May 7th. Architects, Muhlberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Board of Education, Dr. J. C. Gray, president, Cressona, Pa. Fireproof, 1 story, 114x83 feet, Carey roof, maple floors, hollow tile, safety treads, waterproofing, dampproofing, iron stairs, fire doors, tile, steel sash, bond.

High School, South Williamsport, Pa. Owners taking bids due May 14th. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, South Williamsport School Board, Mrs. Fred Foreman, South Williamsport, Pa. Brick, steel, 2 stories and basement, 175x265 feet, composition roof, composition and hardwood floors, safety treads, roof ventilators, metal lath, tile, marble, steel sash (heating, plumbing, electric separate).

Church, Wallingford, Pa. Architects taking bids due May 3rd, 3 P. M. Architects, Savery & Scheetz, Stephen Girard Building, Phila-

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delphia. Owners, Wallingford Presbyterian Church, Wallingford, Pa. Stone, 1½ stories and basement, irregular in size, slate roof, maple and cement floors, steam heat, electric light, metal lath, tile work, ornamental iron work.

Residence, Roseto, Pa. Architect taking bids due May 8th. Architect, C. J. Young. 226 North Sixth street, Reading, Pa. Owner, A. D. Subalino, Roseto, Pa. Brick, 2 stories, 28x32 feet, slate roof, hardwood floors, vapor heat, electric light, metal lath, casement windows.

School and Gymnasium, Seventeenth and Linden streets, Allentown, Pa. Architects taking bids due May 20th. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Allentown School District, D. A. Miller, president, Allentown, Pa. Brick, steel, 4 stories and basement, 110x125 feet (plumbing, heating, electric separate bids), built-up roof, maple floors, hollow tile, safety treads, roof ventilators, metal lath.

Store and Apartment, Penn street, Reading, Pa. Architects taking bids. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Alick Salon, Sixth avenue and Penn street, Reading, Pa. Brick, steel, concrete, 2 stories and basement, 150x44 feet, composition roof, concrete and maple floors, waterproofing, cut stone, incinerators, casement windows, asbestos tile wall, metal lath, tile (heating, plumbing and electric separate).

Jackson School (add.), York, Pa. Owners taking bids due May 9th. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, York School Board, David N. Crider, secretary, King and Duke streets, York, Pa. Brick, steel, 2 stories, 77x67 feet, built-up roof, maple floors, hollow tile, roof ventilators, waterproofing and dampproofing, architectural terra cotta, kalamein doors, metal lath, tile (heating, plumbing and electric separate).

School, Lebanon Independent Borough, Pa. Owners taking bids due May 14th. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owner, Lebanon Independent Borough, Charles Boltz, Lebanon, Pa. Brick, steel, 2 stories, 10 rooms, composition roof, pine floors, roof ventilators, iron stairs, steel sash (heating, plumbing and electric separate).

Sanitary Sewers. Districts No. 4 and No. 7, Cheltenham Township, Pa. Owners taking bids due May 14th at 7 P. M. (Eastern

Standard Time). Engineers, Albright & Mebus, 112 South Easton road, Glenside, Pa. Owners, Cheltenham Township Commissioners, Public Works Commission, Harold C. Pike, secretary, Elkins Park, Pa. Deposit, \$10, refund \$5. Certified check, 2 per cent. Sewer, manholes and appurtenant work.

Grade Schools (2), Minquadales, Del. Stanton, Del. All bids rejected. Will readvertise. Architects, Guilbert & Betelle, Chamber of Commerce, Newark, N. J. Owners, State School Building Co., Dr. H. V. Holloway, superintendent, County Building, Wilmington, Del. Brick, concrete.

Parish House, Lansdale, Pa. Low bidders: H. John Homan, Eighteenth and Cherry streets, Philadelphia. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Holy Trinity Episcopal Church, Lansdale, Pa.

Administration Building (alts. to basement), Penhurst. Low bidder: Bowden Construction Co., 1607 Summer street, Philadelphia, \$3,680. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Penhurst State School Board of Trustees, J. Hibbs Buckman, 1104 Plaza Trust Building, Philadelphia.

Paving, Borough of Rockledge, Pa., \$137,000, alternate \$146,000. Low bidder: F. A. Canuso & Son, 804 South Twelfth street, Philadelphia. Owners, Highway Commission, Borough of Rockledge, George W. Bluett, secretary, Fire House, Rockledge, Pa. Engineers, Albright & Mebus, 112 South Easton road, Glenside, Pa. New penetration macadam or other type bituminous concrete paving and resurfacing of various streets and incidental work.

Locksly Bridge, No. 77, over Chester Creek, Pa. Owners taking bids due May 14th, 10 A. M. (S. T.), County Engineer, Media, Pa. Owners, Delaware Co., G. T. Wades, Media, Pa. Reinforced girder, concrete, 65 feet clear span, 20-foot roadway, 4-foot sidewalk. Deposit, \$2.50, no refund. Certified check, \$1,500.

School, \$90,000, Pocono Lake, Monroe Co., Pa. Architect, G. Edwin Brumbaugh, Real Estate Trhst Building, Philadelphia. Owners, Tobyhanna Township, care of Daniel F. Stearner, Blakesly, Pa. Sketches drawn.

Residence (alts. and add.), Hall road, Wynecote, Pa. Architects will build. Architects, DeArmond, Ashmead & Bickley, 20 South 15th street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 22x47 feet, shingle roof, hardwood floors, cement work, hot water and

vapor heat, electric light, metal lath, tile and marble work.

Parish House (add.), Melrose, Pa. Plans in progress. Architect will be ready for bids in two weeks. Architect, Edw. A. Schoeppe, 1601 Spruce street, Philadelphia. Owners, St. John's Lutheran Church, Melrose, Pa. Stone, 1 story and basement, 120x40 feet, slate roof, hardwood floors, leaded glass, electric light.

Municipal Fire Alarm Headquarters and Garage, Lafayette and Water streets, Norristown, Pa. Low bidders: Hood & Gross, 1535 Chestnut street, Philadelphia, \$61,975; F. R. Heavener, Norristown, \$63,000. Plumbing and heating, F. H. Voyer Co., Norristown, Pa.

Sewer System, \$400,000, Swoyersville, Luzerne Co., Pa. Owners taking bids due May 15th at 8 P. M. Engineers, Wintermute & Halsey, National Bank Building, Wilkes-Barre, Pa. Owners, Borough of Swoyersville, Jos. Chesluk, Pres., Swoyersville, Pa.

Army Post Building No. 9 (rebuilding), \$55,000, Carlisle, Pa. Owners will be ready for bids in about three weeks. Owners, U. S. Government, Col. Reynolds, in charge. Field Medical Service School, Carlisle, Pa.

Auditorium, \$180,000, Mansfield, Pa. Architects taking bids due May 13th. Architects, Eric Fisher Wood & Co., Oliver Building, Pittsburgh, Pa. Owners, Mansfield State Teachers' College, Dr. W. R. Straughn, Prin., Mansfield, Pa.

Pennsylvania Contracts Awarded

Bridge, Columbia to Wrightsville, Pa. Contract awarded Wiley-Maxon Co., Dayton, O., \$2,484,000. Engineer, J. B. Long, Boyer Arcade Building, Norristown, Pa. Owners, Lancaster and York County Commissioners, C. A. Passmore, Court House, Lancaster, and W. E. Weiley, Court House, York, Pa. Reinforced concrete, 7,500 feet long, 44 feet wide, 28 spans.

Residence, Beth Seda and Willow Grove avenue, Wynnewood, Pa. Contract awarded Harry Gill, Jr., 2515 Germantown avenue. Architect, private plans. Owner, name withheld. Brick, 2½ stories and basement, irregular, shingle roof, oak and pine floors. hot water heat, electric light, tile work.

Rectory (alts. and add.), Narberth, Pa. Contract awarded Conneen Construction Co., 770 Schuylkill avenue, Philadelphia. Architects,

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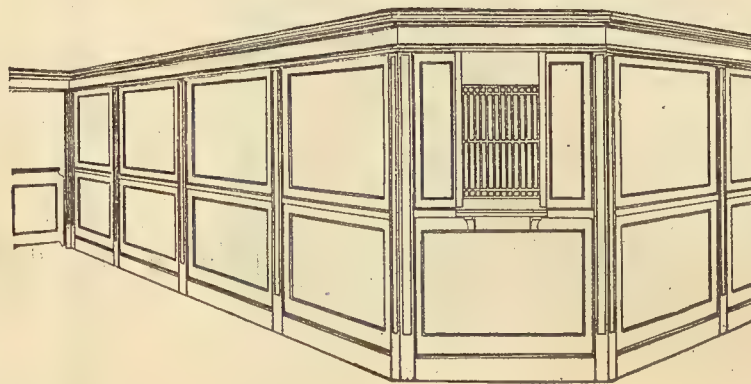
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Stackhouse & Donohoe, 266 South 15th street, Philadelphia. Owners, St. Margaret R. C. Church, Narberth, Pa. Brick, hollow tile, stucco, 3 stories and basement, 28x30 feet, oak and pine floors, hardware, plastering, tile work, painting, glazing, shingle roof, ornamental iron work.

Storage Facilities, 6th and Spring streets, Reading, Pa. Contract awarded Hughes-Foulkrod Co., Schaff Building, Philadelphia. Architect, Clarke Dillenback, 12th and Market street, Philadelphia. Owners, Reading Co., 12th and Market streets, Philadelphia. Brick, steel, reinforced concrete. 3 stories, 350x73 feet, 1 story 255x40 feet, 1 story 71x25 feet. cement floors, slag roof, rolled steel sash, bond, ornamental iron work.

Consolidated High School, Sellersville-Perkasie, Pa. Contract awarded Jones-Redditt Co., McClatchey Building, Upper Darby, Pa., \$94,000. Heating and ventilating, Baldwin Ventilating Co., 1509 Arch street, Philadelphia, \$26,140. Plumbing, J. M. O'Donnell, Quakertown, Pa. Electric, O. W. Lynch, 5743 Ogontz avenue, Philadelphia. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owners, Joint School Board of Sellersville and Perkasie, M. H. Keller, secretary, 8 North Seventh street, Perkasie, Pa. Brick, limestone, steel, 2 stories and basement, 131x128 feet, wing 40x64 feet, cement and maple floors, excavation, waterproofing, cinder concrete block, reinforced concrete, safety treads, metal windows, iron work, iron stairs, metal lath, plastering, painting, glazing.

Training School, \$101,500. Bloomsburg, Pa. Contract awarded Berwick Lumber & Supply Co., Berwick, Pa. Plumbing, Herr Brothers, Seventh and Emerald streets, Harrisburg, Pa. Heating, C. H. Sherry, Hazleton, Pa. Electric, A. Rockafeller, Mt. Carmel, Pa. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Bloomsburg Training School, Dr. F. B. Haas, Bloomsburg, Pa. Brick, steel, 3 stories, 160x63 feet, built-up and slate roof, linoleum, tile and linoleum floors, cinder concrete block, metal stairs, tile.

Laundry Building, \$23,400. Bloomsburg, Pa. Contract awarded Berwick Lumber & Supply Co., Berwick, Pa. Plumbing, Herre Brothers, Seventh and Emerald streets, Harrisburg, Pa. Heating, Chambersburg Construction Co.,

Chambersburg, Pa. Electric, A. Rockafeller, Mt. Carmel, Pa.

Fraternity House, Lancaster, Pa. Contract awarded H. L. Wiant, 544 Mill street, Lancaster, Pa. Architect, J. W. Minick, 23 North Third street, Harrisburg, Pa. Owners, Lambda Chi Alpha Fraternity, H. Arthur Fox, Woolworth Building, Lancaster, Pa. Brick, 2½ stories, 60x25 feet, 20x30 feet. slate roof, oak floors, hot water heat, electric light, tile work.

Residence (alts. and add.), Newfield road, West of Clywd road, Cynwyd, Pa. Contract awarded J. Howard Roberts, Lansdowne, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owners, Mr. and Mrs. Arthur Littleton, on premises. Brick, 2½ stories and basement add., 30x19 feet, slate roof, oak and pine floors, bond, stone work, brick work, cement floors, iron work, carpentry and mill work, plastering, painting, glazing, hardware, electric work (plumbing, heating, cement walks and drives reserved).

School, Danville, Pa. Contract awarded Berwick Lumber & Supply Co., Berwick, Pa. Heating and plumbing, Charles McCarthy, Otis Building, Philadelphia. Electric, Dauphin Electric Co., 436 Market street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Catholic Clovak Girls' High School, care of Mother Superior, Sacred Heart Villa, Danville, Pa. Stone, steel, 2 and 3 stories, 176x35 feet, 96x65 feet, bond, cement, oak and maple floors, slate roof, tile, marble, terrazzo work, metal lath, plastering, fire doors, iron stairs, rolled steel skylights, casement windows, weather stripping, steel sash, waterproofing.

Residence, Lancaster, Pa. Contract awarded Harry Stumpf, Lancaster, Pa. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owner, George Reynolds, Griest Building, Lancaster, Pa. Stone, cinder block, 2½ stories, 100x45 feet, slate roof, hardwood and linoleum floors, hot water heat, electric light, tile work.

School, \$200,000. Hershey, Pa. Contract awarded Hershey Lumber Co., Hershey, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Hershey School District, R. M. Hinkle, supervising principal, Hershey, Pa. Brick, concrete, 2 stories, 140x72 feet, slag roof, steam heat.

Technical High School (add.), Scranton, Pa., \$641,739. Architect, A. J. Ward, 516 Spruce street, Scranton, Pa. Owners, Scranton School Board, 425 North Washington street, Scranton, Pa. Contract awarded Breig Brothers, Scranton Real Estate Building, Scranton, Pa. Plumbing, Joseph A. Hawley, 617 Spruce street, Scranton, \$28,087. Heating, E. A. Campagna, 818 West Lackawanna avenue, Scranton, \$85,273. Electric, Barnes & Armbruster, 403 Gibson street, Scranton, Pa., \$36,055.

Residence and Garage, Southeast Corner DeKalb and Ellis streets, Norristown, Pa. Contract awarded F. R. Heavner, Norristown, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Mrs. Dorothy E. Copp, care of architect.

Swimming Pool, West Chester, Pa. Contract awarded Milton W. Young, 2037 North Sixty-third street, Philadelphia. Architect, Ralph L. Colton, 1520 Locust street, Philadelphia. Owner, Gilbert Mather, West Chester, Pa. Reinforced concrete, 20x50 feet, waterproofing, plumbing.

Garage, Downingtown, Pa. Contract awarded W. I. Pollock, Jr., Downingtown, Pa. Architect, J. H. Mowere, 221 Bridge street, Phoenixville, Pa. Owners, Downingtown Motor Co., Downingtown, Pa. Brick, 1 story, 12,000 square feet, slag roof, cement and composition floors, steam heat, electric light, rolled steel sash.

Residence (alts. and add.), Brookline, Pa. Contract awarded Frank S. Hammond, Brookline, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Thomas Bell, Pennsylvania avenue, Brookline, Pa. Frame, stucco, 2½ stories, hot water heat, shingle roof, hardwood floors, tile work.

Oil Station, Fourth and Franklin streets, Reading, Pa. Contract awarded Glenside Construction Co., Reading, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Blue Seal Oil Co., 730 Windsor street, Reading, Pa. Cinder block and stucco, 1 story, 22x40 feet, composition roof, concrete floors, electric light.

Church, Kutztown, Pa. Contract awarded J. K. Grimley, Kutztown, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, John R. Gouser Memorial Church, Fairview Cemetery Association, care of architect. Stone, 1 story, 35x65 feet, slate roof, tile floors, hot water heat, electric light, tile, marble.

Residence (alts. and add.), Montgomery avenue, Villa Nova, Pa. Contract awarded F. R. Heavner, Norristown, Pa. Architect, John M. Taylor, on premises. Stone, 2½ stories, 25x38 feet, vapor heat, electric light, colored tile hardwood floors, shingle roof, squash courts, billiard rooms.

Residence, Rydal, Pa. Contract awarded John R. Erbe, 2551 North Sixth street, Philadelphia. Architect, Samuel W. Marshall, 1524 Chestnut street, Philadelphia. Owner, John K. Hoyle, 1324 Walnut street, Philadelphia. Stone, steel, 2½ stories and basement, irregular (plumbing, heating, tile electric reserved), shingle roof, oak and pine floors, ornamental iron work.

Residence, Montgomery avenue and Spring Mill road, Villa Nova, Pa. Contract awarded John R. Erbe, 2551 North Sixth street, Philadelphia. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, Thomas E. Hare, 919 Walnut street, Philadelphia. Stone, 2½ stories, 28x139 feet, shingle roof, hardwood floors, hot water heat, electric light, tile and marble work.

Armory (alts.), Media, Pa. Contract awarded W. S. Ford, Media, Pa. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Commonwealth of Pennsylvania State Armory, care of Benjamin W. Demming,



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Residence (alts. and add.), Churchville, Bucks County, Pa. Contract awarded Chancellor Day, 2504 Rhawn street, Philadelphia. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Howard S. Levy, Churchville, Bucks County, Pa. Hollow tile, stucco, 2 stories, 25x25 feet, shingle roof, hot water heat.

Factory (add.), Bedminsterville, Pa. Contract awarded Wilmer K. Fretz, Bedminsterville, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, William Fretz, Bedminsterville, Pa. Stone, 1 story and basement, 36x40 feet, built-up roof, cement floors, heating, electric work, rolled steel sash, plumbing.

Parochial School. Yeadon, Pa. Contract awarded McCloskey Co., 1620 Thompson street, Philadelphia. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owners, St. Louis' Roman Catholic Church, Rev. T. J. Burke, Yeadon, Pa. Brick, steel, 2 stories and basement, 99x59 feet, wing 59x43 feet, bond, reinforced concrete, Penetrite waterproofing, floor hardener (Lapedolith), Aquia Stone, Formigle cast stone, cinder block (Straub), Trusecon waterproofing, screen, iron stairs, Barrett specification roof, roof ventilators (Royal or Star), maple floors, metal lath, kalamein doors, plastering, painting, glazing, hardware.

Residence and Garage, Drexel Park, Pa. Contract awarded Nason & Cullen, Ardmore, Pa., will build and will take sub-bids. Architect, J. J. Carroll, 1619 Chestnut street, Philadelphia. Owner, name withheld. Frame, brick, veneer, 2 stories and basement, 30x42 feet, garage, frame, 1 story, 20x20 feet. creodipt shingle roof, hot water heat, electric light, hardwood floors, two tile baths.

Residence (add.), Rosemont, Pa. Contract awarded Townsend, Schroeder & Wood. Drexel Building, Philadelphia. Architects, Mellor & Meigs, 205 South Juniper street, Philadelphia. Owner, George E. Reilly, Rosemont, Pa. Stone, 1 story and basement, 25x30 feet, tin roof, oak and pine floors, plumbing, electric light.

Residence (alts. and add.), Remington road, Overbrook. Pa. Contract awarded W. Harry Roberts, 119 East Eagle road, Upper Darby, Pa. Architect, Louis Adams, Radnor, Delaware County, Pa. Owner, J. William Hardt, care of Philadelphia National Bank, 1416 Chestnut street, Philadelphia. Stone, 2½ stories and basement, 21x26 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, iron work.

Bridges (2), No. 3, Belmont avenue, over Rockhill Creek, Jenkintown, Pa. Contract awarded Wagman Construction & Engineering Co., Dallastown, Pa., \$9,632.80. No. 53, over Tacony Creek, near Jenkintown Station. Contract awarded Edward A. Daylor, Coatesville, Pa., \$9,065. Owners, Montgomery County Commissioners, W. C. Irwin, Controller, Court House, Norristown, Pa.

Grading and Paving, Glenside, Pa. Contract awarded Yeo Construction Co., Jenkintown, Pa., \$14,468.60. Owners, Commissioners of Abington Township, E. Raymond Ambler, secretary, Township Offices, Abington, Pa. Grading, concrete curb and gutter paving, macadamizing, sidewalks, walls and steps, Mt. Carmel avenue, between Easton road and Kenwick avenue.

Grading and Curbing, \$1,000. Tyson avenue, from Mt. Carmel avenue to Jenkintown road, Abington, Pa. Contract awarded George R. Ambler, Jr., Forrest avenue, Abington, Pa. Owners, Highway Committee of Abington Township, Township Offices, Abington, Pa. Grading, concrete curb and gutter paving, repairing or replacing all defective sidewalks.

Storm Water Sewer, North Glenside, Pa. Contract awarded Vittorio & Co., 423 East High street, Philadelphia. Owners, Commis-

sioners of Abington Township, E. Raymond Ambler, Township Offices, Abington, Pa.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Erie County, R-88, A-5923, Mill Creek and Green Townships. One course reinforced concrete. Charles H. Fry Construction Co., Erie, Pa., \$93,443.79.

Lancaster County, R-527, A-5580, Colerain Township. Bituminous treated macadam surface course. York Engineering & Construction Co., York, Pa., \$104,288.08.

Beaver County, R-77, Sec. 4, College Hill Borough. Vitrified brick pavement on concrete base. Millar & Billock, Youngstown, Ohio, \$75,458.04.

Northumberland County, R-18, Milton Borough. One course reinforced concrete. Harry L. Moore, Newberry, Pa., \$23,584.55.

Adams County, R-126, Straban, Mt. Pleasant and Oxford Townships, New Orford Borough. One course reinforced concrete. Paul R. Hostetter, Inc., York, Pa., \$183,967.34.

Allegheny County, Viaduct, Robinson and Moon Townships, over Montour Railroad and Montour Run. Rust Engineering Co., Pittsburgh, Pa., \$86,643.85.

Lebanon County, R-141B, 140E, Union Township. One course reinforced concrete. D. L. Risser, Lebanon, Pa., \$217,549.59.

Indiana County, R-301, Sec. 2, A-6078, Cherryhill, Pine and Buffington Townships. One course reinforced concrete. Grading and drainage. Paul Construction Co., Cresson, Pa., \$188,083.35.

Northampton County, R-18, Sec. 7, Point Township. One course reinforced concrete. Swanger-Fackler Construction Co., Lancaster, Pa., \$89,728.02.

Lawrence County, R-80. Neeshannock Township. One course reinforced concrete. McDermott Construction Co., Niles, Ohio. \$77,202.80.

New Jersey Construction News

Residence, Hilltonia, Trenton, N. J. Plans in progress. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Theodore Tobish, American Mechanics' Building, Trenton, N. J. Stone, 2½ stories. 83x30 feet, slate or shingle tile roof, hardwood floors, flagstone, electric work, tile, casement windows, brass pipe.

Pavilion, \$30,000. Thirteenth avenue, Belmar, N. J. Plans in progress. Owners will soon

take bids. Owners, City Commissioners, Belmar, N. J. Piling, frame, concrete.

Mausoleum, \$75,000. Camden, N. J. Plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Arlington Mausoleum Co., 501 Cooper street, Camden, N. J. Stone, tile, marble, bronze work.

Club House. \$500,000. Market street, above Eighth street, Camden, N. J. Plans in progress. Architects, Edwards & Green. Camden, N. J. Owners, Camden Lodge, No. 111, L. O. O. M., T. A. Colsey, Dictator, 635 Market street, Camden, N. J. Brick, stone, steel, 3 stories, size of lot 100x174x190x100 feet, will contain auditorium, lodge rooms, etc.

Dickinson Hall, Princeton, Princeton, N. J. Architect taking bids due May 8th. Architect, Charles Klauder, 1429 Walnut street, Philadelphia. Owners, Princeton University, Princeton, N. J.

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Bulkhead, Camden, N. J. Architect, C. W. Staniford, 50 Church street, New York. Owners, South Jersey Port Commissioner, A. C. Middleton, 106 Market street, Camden, N. J. Reinforced concrete wall, 1,050 feet wharfing. Owners taking bids due May 10th.

New Jersey State Hospital for Criminal Insane, Trenton, N. J. Owners taking revised bids due May 14th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Fireproof.

Temple, Trenton, N. J. Architect taking bids due May 6th. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Har Sinai Temple, care of architect. Fireproof, stone, 1 and 3 stories, 100x150 feet. tile roof, tile and cement floors, safety treads, roof ventilators, metal window guards, bronze, wrought iron pipe, ornamental iron, iron stairs, bond, fire doors, steel sash, tile, marble, metal lath (heating, plumbing and electric reserved).

Administration Building, 446 Bellevue avenue, Trenton, N. J. Architects taking bids due May 8th. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Mercer Hospital, on premises. Brick, steel, 5 stories, 50x126 feet, reinforced concrete and tile roof, hardwood and composition floors, rollow tile, elevators (2), safety treads, ornamental plaster, steel sash, tile, marble, terrazzo, metal lath, electric light, heating extension.

Cottages (5), State Reformatory for Boys, Jamesburg, N. J. Owners taking bids due May 8th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, 1 and 2 stories, 100x91 feet, slate roof, fireproof and wood floors (heating, plumbing and electric separate), limestone.

Dormitory, Reformatory for Women, Clinton, N. J. Owners taking bids due May 15th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Disciplinary Building, Colony for Feeble Minded, New Lisbon, N. J. Owners taking bids due May 10th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Store House, State Village for Epileptics, Skillman, N. J. Owners taking bids due May 17th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Show Room and Service Station, 1482-90 Broadway, Camden, N. J. Owner taking sub-bids due May 7th. Architect, I. Demchick,

1701 Chestnut street, Philadelphia. Owner, B. Bornstein, Juniper and Walnut streets, Philadelphia. Brick, steel, 2 stories, 60x100 feet. slag roof, cement floors, electric.

Store, \$25,000, Ocean City, N. J. Engineers will build. Engineers, William Steele & Son, Fifteenth and Cherry streets, Philadelphia. Owner, Long Street Realty Co., care of engineer. Frame, 1 story, irregular in size, slag roof, pine floors.

Cottage, Stone Harbor, N. J. Plans completed. Owner ready for bids. Architect and owner, J. B. Thomson, 1321 Arch street, Philadelphia. Frame, 1½ stories, 28x60 feet, shingle roof, pine floors, electric light, plumbing, wall boards.

Law School, Federal street, Camden, N. J. Low bidder: H. John Homan, Eighteenth and Cherry streets, Philadelphia. Owners, South Jersey Law School, E. G. Van Name, 503 Market street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Brick, steel, stone, 3 stories, 51x120 feet.

Paving, Pensauken Township, N. J. Low bidders: Fish-Rutherford Co., 542 Penn street, Camden, N. J. Owners, Township Committee of Pensauken, R. W. Peabody, Pensauken, N. J. Engineers, Remington & Vosbury, 509 Cooper street, Camden, N. J. 290 square yards 6-inch concrete gutter, 1,235 square yards 7-inch concrete paving, 640 cubic yards excavation.

Residences and Garages (4), \$5,500 each. 1345-47-51-53 Decatur street, Camden, N. J. Permit issued. Owner, Carmelo Olivieri, 100 East Holly avenue, Oaklyn, N. J. Brick, 2 stories, 16x54 feet, slag roof, hot water heat, electric work.

Residence, 430 Lansdowne avenue, Camden, N. J., \$3,000. Contract awarded Jörn Knauer, 1327 Lansdowne avenue, Camden, N. J. Owner, George Hill, 223 Federal street, Camden, N. J. Brick, 2 stories, 14x34 feet, asphalt roof, warm air heat, electric.

Road Work, New Jersey. Owners taking bids due May 13th at noon (Daylight Saving Time). Certified check, 10 per cent. Deposit, \$10. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route 39, Sec. 7, Oak Shade to Indiana Mills, Burlington County. Wet excavation, borrow, unclassified excavation, reinforced concrete pavement.

Residence (alts. and add.), Arlington and Grant avenue, West Collingswood, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, R. C. Moore, West Collingswood, N. J. Architects ready for bids.

School Building (add.), Woodbury, N. J. Owners taking bids due May 9th, 8 P. M. (D. S. T.) Architects, The Ballinger Co., 12th and Chestnut streets, Philadelphia. Owners, Board of Education, North Broad street, Woodbury, N. J. Deposit \$20, refunded on each. Certified check, 10%. Plumbing, heating and electric.

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New Jersey Contracts Awarded

Senile Building, Greystone Park, N. J. Contracts awarded. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2 stories and basement, 223x56 feet, Johns Manville built-up roof, bond, excavation, waterproofing, damp-proofing, cinder concrete block, limestone, granite, bluestone, iron work, iron stairs, metal window guards. General, M. Millimet, 988 Bergentine avenue, West New York, N. J., \$137,700. Plumbing, Buist & Sons, New Brunswick, N. J., \$13,580. Electric, Bietar Electric Co., Elizabeth, N. J., \$14,254. Heating, Elling Brothers, Somerville, N. J., \$11,490. Elevators, Burwak Elevator Co., 216 Fulton street, New York, \$7,150.

Residence (add.), Plainsboro, N. J. Contract awarded Edward La Rue, 53 South Hermitage avenue, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, John V. B. Whicoff, care of architect. Framt, 2 stories, 4 rooms, slate roof, yellow pine floors, metal weather strip, ornamental plaster, tile, marble, electric light.

Residence and Garage (alts. and add.), Moorestown, N. J. Contract awarded Clement B. Webster, Moorestown, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owner, George B. Ferrier, Moorestown, N. J. Carpentry and mill work, plastering, painting, glazing, hot water heat, plumbing, electric work.

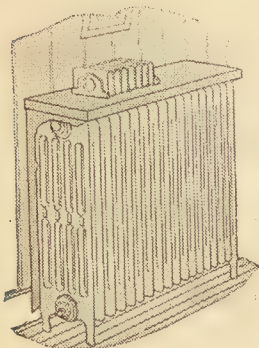
Camden County Court House, Fifth, Sixth, Market streets, Camden, N. J., \$2,907,133. Contract awarded F. W. Mark Construction Co., Commercial Trust Building, Philadelphia. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Board of Chosen Freeholders, Camden County, L. H. Ewing, Court House, Camden, N. J.

Factory, Freehold, N. J. Contract awarded William Steele & Son, Fifteenth and Cherry streets, Philadelphia. Architects, William Steele & Son, Fifteenth and Cherry streets, Philadelphia. Owners, A. & M. Karaghemsian. Freehold, N. J. Brick, reinforced concrete, steel, 5 stories and basement, 177x76 feet, slag roof, cement floors, steam heat, electric light.

School, Millville, N. J. Architect, Alexander Merchant, New Brunswick, N. J. Owners, Board of Education, E. W. Rumpf, Millville, N. J. Contract awarded Wills-Bill Co., 1502 Locust street, Philadelphia. Electric, John Dalton, Millville, N. J., \$6,670. Plumbing, Snook & Guard, Millville, N. J., \$7,270. Heating and ventilating, South Jersey Equipment Co., Camden, N. J., \$16,407. Brick, cast stone, steel, 2 stories and basement, 159x114 feet, limestone, tile, marble, terrazzo, California stucco, metal lath, Straub cinder block, brass pipe, bond, excavation, reinforced concrete and cement work, Poretone (Porete Mfg. Co.), waterproofing, membrane, hollow tile, ornamental plastering, Majestic coal chutes, iron stairs, metal window guards, safety treads, built-up roof (Johns Manville or Barrett's), roof ventilators (Royal or equal), rolled steel skylights, metal toilet partitions, composition floors (Rubberstone, Tileter or equal), linoleum floors, kalamein doors, maple floors.

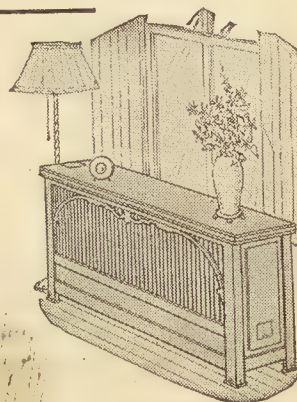
Sewer, \$27,000. Woodbury, N. J. Contract awarded J. Lafferty, Haddon Heights, N. J. Owners, Borough of Woodbury, N. J.

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Miscellaneous Construction News

Residence, Wilmington, Del. Plans in progress. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, P. C. Sissler, Equitable Building, Wilmington, Del. Stone, stucco, 2½ stories, 28x38 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Church, Sunday School, Fellowship Building, H street, between Nineteenth and Twentieth streets, N. W., Washington, D. C. Preliminary sketches being prepared. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Western Presbyterian Church, Rev. J. Harvey Dunham, 2109 G street, N. W., Washington, D. C. (Note changes.)

Power Factory Buildings (25), \$300,000. Dover, Del. **Officers' Quarters**, Fort Monmouth, N. J., \$350,000. Plans in progress. Will take bids in about two months. Architect, private plans. Owners, War Department, Picatinny Arsenal, Dover, N. J.

Residence, Wawasett Park, Wilmington, Del. Architects will be ready for bids in one week. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, C. A. Sutherland, care of Warden Grey, DuPont Building, Wilmington, Del. Brick, 2½ stories, 40x40 feet, slate roof, hardwood floors, electric light, hot water heat, tile work.

Armory (add. and alts.), Laurel, Del. Architect taking bids due May 6th. Architect, E. C. May, DuPont Building, Wilmington, Del. Owners, State Armory Commission, Dover, Del. Brick, steel, 1 story, 30x45 feet, composition roof, cinder and pine floors, electric work, kitchen equipment.

Church, Wilmington, Del. Architects taking bids due May 2nd. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, First Central Presbyterian Church, care of architects. Brick, steel, stone, 1 story and basement, 80x210 feet, slate and composition roof, hardwood, tile and composition floors, roof ventilators, waterproofing and dampproofing, acoustical treatment, flagstone, ornamental iron, tile, marble (heating, plumbing and electrical work reserved).

Residences (4), \$20,000. Tatnall street, Wilmington, Del. Owner will build. Architect, private plans. Owner, Charles Dillon, 422 South Broome street, Wilmington, Del. Brick, 2 stories, 20x30 feet, composition roof, pine floors, hot water heat, electric light.

Residences (2), \$22,000. 712-14 Blackshire street, Wilmington, Del. Owner will build. Architect, private plans. Owner, C. W. Gooding, Jr., 2310 Ridgeway road, Wilmington, Del. Stone, brick, 2½ stories, 22x35 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath.

Residence, \$14,000. 812 Blackshire street, Wilmington, Del. Owner will build. Owner, Charles W. Gooding, 2310 Ridgeway road, Wilmington, Del. Stone, 2½ stories, 25x47 feet, slate roof, hardwood floors, electric light, hot water heat, tile work.

Residences (5), \$25,000. 2801 03-05-07-09 West street, Wilmington, Del. Owner will build. Owner, Bernard Tophis, 833 West Nineteenth street, Wilmington, Del. Brick, 2 stories, 20x29 feet, composition roof, pine floors, hot water heat, electric light.

Residences, \$70,000, North side Thirty-fifth street, Wilmington, Del. Owner will build. Owner, Harry B. Roos, 2109 Franklin street, Wilmington, Del. Brick, 2 stories, 20x31 feet, slatt and slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Many a man would do a better job if he didn't know about putty.—Ex.

Miscellaneous Contracts Awarded

Junior and Senior High School, Milford, Del. Contract awarded J. B. Ferguson & Co., Hagerstown, Md., \$141,000. Electric, Electric Service Co., 706 West Fourth street, Wilmington, Del., \$3,660. Heating and ventilating, Palmer-Thackery Co., Rehoboth, Del., \$23,000. Plumbing, Prichett & Robbins, Cambridge, Md., \$13,860. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, superintendent, Dover, Del. Brick, concrete, steel, 3 stories and basement, 152x73 feet, limestone, iron stairs, maple and yellow pine floors, integral waterproofing. Low bidders: J. B. Ferguson & Co., Hagerstown, Md., \$131,000.

School, Rose Hill, Del. Contract awarded Dominic Fontana, 814 West Fourth street, Wilmington, Del. Heating, plumbing and ventilating, T. T. Weldin & Son, 916 Orange street, Wilmington, Del. Electric, Electric Contracting Co., 111 West Eighth street, Wilmington, Del. Architects, Guilbert & Betelle, Chamber of Commerce, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, superintendent, County Building, Wilmington, Del. Brick, concrete, timber, 1 story, 153x77 feet, steel, iron, carpentry.

Residence and Garage, Westover Hills, Wilmington, Del. Contract awarded Smyth Construction Co., 1415 Clinton street, Wilmington, Del. Architect, A. Burton Stanhope, Equitable Building, Wilmington, Del. Owner, Dr. James W. Lowrie, Wilmington, Del. Stone, steel, 2½ stories and basement, 71x47 feet, 33x22 feet, slate roof, oak, pine and cement floors, metal lath, tile, bond, ornamental iron.

Knitting Mills, Frederick, Md. Contract awarded Hahn & Betson, Frederick, Md. Architects, Lockwood-Greene Co., 100 East Forty-second street, New York City. Owners, Union Manufacturing Co., Frederick, Md. Brick, steel, limestone, 1 story, 100x100 feet, built-up roof, cement floors, hollow tile, rolled steel sash, floor hardener, iron work.

Sunday School (add.), Hagerstown, Md. Contract awarded George N. MacWolf, Hagerstown, Md. Architects, Bureau of Architects, Methodist Episcopal Church, 1701 Arch street, Philadelphia. Owners, Church of the Brethren, Rev. A. B. Miller, Hagerstown, Md. Brick, stone, 3 stories.

MAKING COLOR ADD TO SALES VALUE

Painting of Wood and Stucco Adds the
Modern Touch That Catches the Eye

BY MARIE HULSER

Houses, like people, are often judged at their face value. A prospective home owner is much more impressed by the exterior appearance of a house than by any

other feature. If it makes a good impression at first sight he will be favorably inclined—if it doesn't chances are that all the modern interior improvements devised to intrigue him, once he is on the inside, will have no effect whatsoever.

A person wants, first of all, when buying a house, one that is not only "different" in type and lines, but cheerful and harmonious in its colorfulness. He wants a home to be proud of, rather than one that has everything else, but misses being attractive because of an ill chosen color scheme—or a drabness due to an utter lack of color.

The more practical aspects of home buying will follow. But, first it is the color that takes the eye, and practically makes the sale—much more than the style of a house or its practicability.

Color is very much the vogue, at the present time, both inside and outside of the home. But by color we do not mean an ensemble of flaunting reds and flagrant purples for exterior decoration. Merely a slight departure from the conventional tones—something that gives a place some unusualness—an individual appearance.

Colonial yellow is being used a great deal now in place of the usual white on Colonial homes—stone gray to make a lovely substitute with sage green trim—or a gray trim of a lighter shade than the body color. New color, if only to replace the usual dark green of shutters has done a lot toward individualizing many of the modern homes. Various shades of blue, if in harmony with the alternating colors, are most attractive for shutters. A definite departure from the conventional, in this way, can result in an altogether charming and effective color scheme.

If certain factors are considered and a choice is made accordingly the builder need feel no hesitancy in embarking on colorful schemes for his houses. First the architecture of a house and its location must be considered. It is wisest to adapt the color scheme to the period of a house, as much as possible. For instance, the strong contrasts of deep brown, light buff, and red brick, while appropriate for an English half-timbered design, would be more suitable here than on a Dutch Colonial house. And colors suitable for a Georgian house might not be adaptable for a Colonial farm-house.

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A house will always look its best when its colors are blended into its background and surroundings. The roof must be considered and included in the choice of colors.

Painting and decorating stucco has become equally as popular as the use of color on frame houses. The more conservative houses are being painted a lovely light gray, using a darker tone for the trim, and a tile-red roof. Most of the dwellings which are Italian in design are built of stucco. These are made much more attractive when painted a soft salmon pink—suggesting an Italian villa.

The use of paint on stucco is one of the greatest assets to such a dwelling. The appeal of stucco is greatly lessened if it is left without color. At the same time this material, if allowed to remain unpainted, absorbs soot and cinders, which are not easily removed. This inevitable occurrence results in a most depressing looking place.

Stencil decoration in color is frequently used on stucco houses, executed either in a single contrasting color or in a variety of colors. For instance, the beauty of an arched entrance to a light cream stucco bungalow, would be very much enhanced with a narrow stencil border applied directly over the stucco with paint. Dark brown and deep tan would be extremely attractive colors for conservative decoration. Red and green in a floral pattern, if not too brilliant, would be even more effective.

A well planned design will give relief and character to exterior wall areas that might otherwise be too severe. Stencil decoration, used to alleviate such structural unattractiveness, will enable an appreciable saving in building costs, eliminating the need for reconstruction.

In addition paint on stucco gives the same protective qualities it supplies a wooden or shingled exterior. It keeps out moisture which is damaging, it preserves the surface from the heat of the sun or from a driving rain by affording unequalled preservation.

Too much cannot be said, at this time, about the value of a good paint job. In choosing paint colors a builder should also be assured that the paint to do the work is of the best quality, not only because such paint will be eminently more effective in its beauty work, but because it will give the necessary protection expected of it. It must be applied by painters who know their job, thus affording the house the opportunity to serve as a lasting monument to the builder both through the use of good materials and good workmanship.

A good color scheme will add dollars to the sales value of a house, and if the materials and workmanship used are first class, the paint that is doing this work can insure the resale value and the reputation of the builder.

Well painted houses, in discriminating colors, in addition have a great deal to do with improving the valuation of a neighborhood. And a good looking neighborhood attracts residents to it with little effort on the part of the promoter. "An attractive home in a nice neighborhood" is the ambition of every up and coming family. Colorful homes sell themselves. —*Building Age and National Builder.*

THE CONSTRUCTION SURVEY CONTRACT

BY G. SZMAK, *Economist*

A good deal has been said and written about the irresponsible buyer and seller of construction. This fact not only indicates a problem, but also the urgent need of a solution. While it is impossible to entirely eliminate unfair practices, yet, it is very easy to increase fairness by encouragement. Catch phrases, slogans and co-operative movements to improve ethics, however, do not increase fairness while inefficient or degenerated methods of transacting business remain in use.

Thru research in the field of contracting better methods are continually being developed to improve the equity between buyer and seller. This advance is made by utilizing the merits and scraping the demerits of the present forms of contract.

Although used extensively, it is continually proven by fact that lump-sum contracts do not protect either buyer or seller. Which one gains or loses is a matter of more or less conscience as the information upon which lump-sum contracts are usually based is not sufficiently positive to afford full protection. Thus extras are the rule rather than the exception under this form of contract.

The cost plus contract is another form that has been used by some of the larger buyers of construction. This method has at least one distinct advantage. It eliminates the entire risk of the seller while the buyer assumes payment for all material and labor required to erect the structure plus a definite percentage fee for contractor's management and profit. The seller's risk having been eliminated, the contractor is free to concentrate upon producing a good piece of work. Unfortunately, or otherwise, not every buyer is willing or can afford to pay for construction at an indefinite price.

A third and more recent form is the construction survey contract which is universal for the reason that it eliminates the risk of both buyer and seller. This form of contract is based upon a construction survey which reveals in advance the exact quantity, quality and price of each part of the structure so that the entire transaction is open for examination at all times. Under this method the buyer is enabled to know precisely the cost of each item in advance, compare the cost

of a certain item by different bidders and also the cost of one item against another to determine the most economical construction that is suitable.

The total actual cost of the project is determined more positively under this method than any other because every survey contract is supported by a preliminary estimate prepared by the construction surveyor as well as by the contractors' final estimates.

PLUMBING IN SKYSCRAPPERS STUDIED BY GOVERNMENT EXPERTS

Many Additions to Existing Code Recommended in Report Just Issued by Department of Commerce

One of the outstanding problems involved in the construction of the modern skyscraper—that of adequate and sanitary plumbing—bids fair to be solved as a result of investigations of the Commerce Department's Committee on Plumbing, working in conjunction with government scientists. This analysis of plumbing in high buildings is supplementary to a study made several years ago in connection with installations in dwellings and small buildings.

In a report which has just been released such questions are discussed as the size of pipe to be used, kind of venting, most efficient and sanitary types of traps, etc. The conclusions arrived at, it is pointed out, are based on tests made by experts of the Bureau of Standards and experience with actual plumbing installations. Buildings from 10 stories to 40 stories above the ground present many plumbing problems not found in smaller structures. For this reason, the Committee overhauled its earlier report, strengthened it where the need was disclosed, and added tables and rules suitable for the design of high plumbing systems.

The committee states that although its present recommendations are a step forward toward more logical and economical requirements and are believed to be the best that can be offered in the present state of knowledge, much experimental work remains to be done before all phases of the subject will be thoroughly understood. It urges the continuation of experimental work in the belief that the public will benefit greatly from it.

Copies of the complete report which is entitled "Minimum Requirements for Plumbing" may be obtained for 35 cents from the Superintendent of Documents, Washington, D. C.

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—*Elbert Hubbard.*

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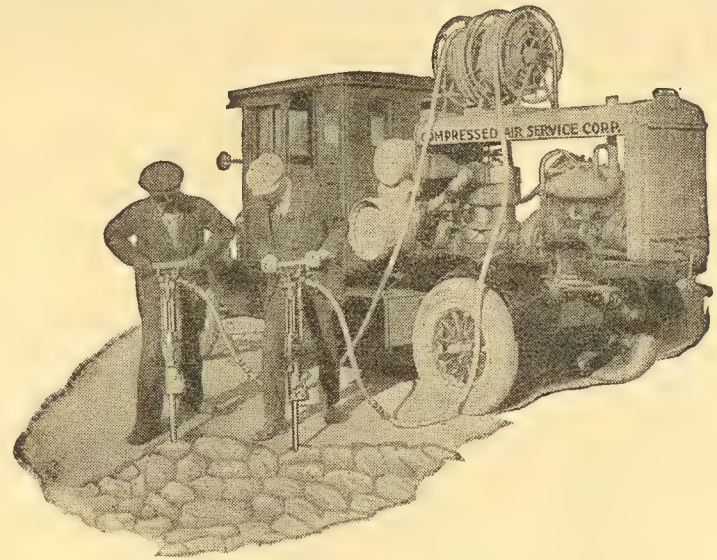
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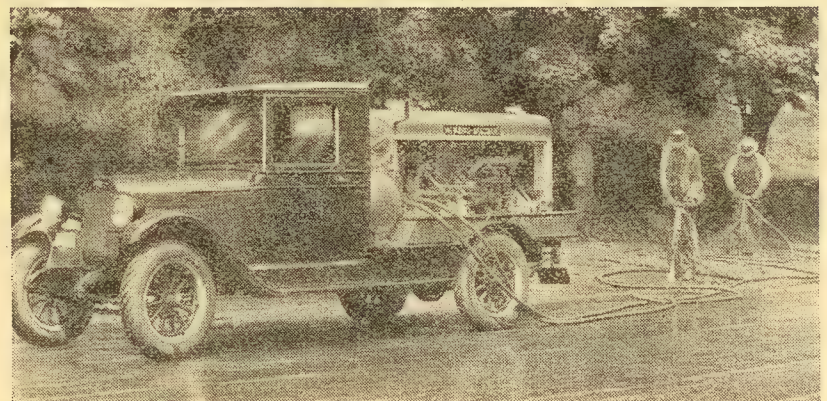
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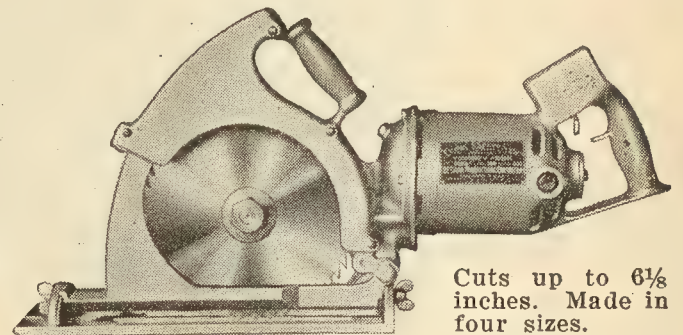
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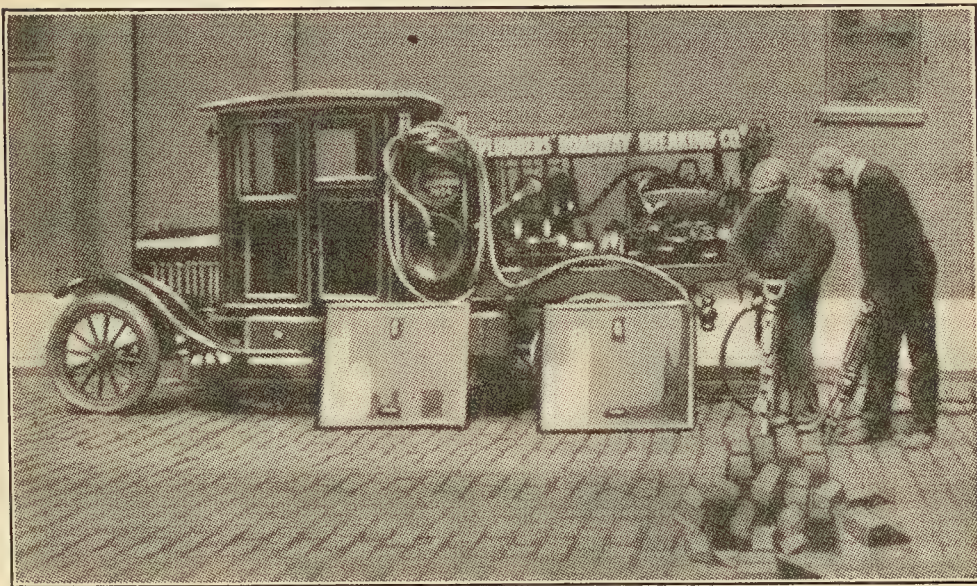
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VOLUME XLIV
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May 8, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (Lot No. 5), Waterman avenue, between Germantown avenue and Crefelt street, Sunset Development, Philadelphia. Preliminary plans in progress. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, J. Warren Butterworth, for Mrs. Frederic Hemsley Levis, 120 West Springfield road, Chestnut Hill, Pa. Stone, 2½ stories.

Church, Northwest Corner Sixteenth and Fitzwater streets, Philadelphia. Plans in progress. Architect, Charles Talley, Pythias Building, Nineteenth and Addison streets, Philadelphia. Owners, Second Seventh Day Adventist Church, on premises. (Please note change in architect.)

Garage, Eighth and Kenilworth streets, Philadelphia. Plans completed. Architect, Wesley Leasher Blithe, Public Ledger Building, Philadelphia. Owner, Thomas J. Carney, on premises. Hollow tile, stucco, 1 story, 20x23 feet, wing 8x10 feet, slag roof, concrete floors. James Johnston, 1606 Swain street, Philadelphia, will build.

Factory, Wakefield street, Germantown, Philadelphia. Plans about completed. Architect, Franklin D. Edmunds, Real Estate Trust Building, Philadelphia. Owner, F. A. Cruice, Twenty-first and Ridge avenue, Philadelphia. Brick, steel, 2 stories, 80x128 feet, slag roof, concrete floors, hot water heat, electric light, rolled steel sash, fire doors.

Architects' Building, Northeast Corner Seventeenth and Sansom streets, Philadelphia. Plans are in progress. Wark & Co., 1600 Walnut street, Philadelphia, will build on

cost plus basis. Architects, Group of Architects, Victor D. Abel, Otis Building, Philadelphia, Director. Owner, Joseph J. Greenberg, Fidelity-Philadelphia Building, Philadelphia. Brick, concrete, steel, limestone, 22 stories and basement, 65x96 feet, elevators, steam heating, electric light, tile and marble work.

Building, rear 4608-10-12 Lancaster avenue, Philadelphia. Owners, Weinstein Supply Co., 5928 Haverford avenue, Philadelphia. Owners taking bids. Brick, 2 stories, 50x40 feet, slag roof, cement floors, electric light.

Sunday School, Midvale avenue, East of Ridge avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Falls of Schuylkill Baptist Church, Rev. W. J. Hays, 3635 Queen lane, Philadelphia. Stone, 3 stories, slag roof, hardwood floors, electric light. Ready for bids in a week.

Store and Apartment (alts.), Old York road and Lyecoming avenue, Philadelphia. Owner will build and will sublet. Architect, private plans. Owner, Margaret Freney, 1005 Sharpless street, Philadelphia. General alterations. (Note changes.)

Factory, Cresson and Bowman streets, East Falls, Philadelphia. Plans about completed. Architect ready for bids in one week. Architect, H. B. Tobias, Otis Building, Philadelphia. Owners, Falls Plush Mill, on premises. Brick, concrete, 1 story, irregular, slag roof, steam heat, electric light, rolled steel sash, waterproofing.

School and Chapel, Sixty-fifth and Chester avenue, Philadelphia. Ready for bids in

one week. Architect, George I. Lovatt, 220 South Sixteenth street, Philadelphia. Owners, Roman Catholic Church of Good Shepherd, Rev. J. A. McMahon, on premises. Stone, brick, steel, 2 stories and basement.

Residences (22), Aldine, between Walker and Cottage streets, Philadelphia. Owner taking sub-bids. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, George Betz, 5425 Horrocks street, Philadelphia. Brick, stone, concrete block, 2 stories, 18x39 feet, slag roof, concrete tile roof, hardwood floors, garage in basement, hot water heat, electric light, tile work.

Apartment House, Fifty-fourth and Overbrook avenue, Philadelphia. Owner taking sub-bids. Owner, Harry Pearl, Thirteenth and Sixty-eighth avenue, Philadelphia. Brick, steel, cast stone, 4 stories, 50x110 feet, 24 suites, slag roof, hardwood and marble floors, elevators, kitchen and laundry equipment, door beds, soundproofing, refrigeration, incinerators, vapor heat, oil burners, electric light, tile work, hollow metal sash and skylights.

Kingsessing Playground, Forty-ninth and Kingsessing avenue, Philadelphia. Owners taking bids due May 13, 11 A. M. (Eastern Standard Time). Architect (city), W. S. Covell, City Hall Annex, Philadelphia. Owners, Bureau of Recreation, Department of Welfare, 595 City Hall. Deposit, \$5. Certified check, 5 per cent. Removal and resetting of baseball back-stop and cage, including concrete bases and curbs.

Residence Operation, Oak Lane and Seventy-sixth avenues, Philadelphia. Plans in progress.

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ress. Architect, private plans. Owner, M. Cyl-
inder, 363 East Roosevelt Boulevard, Phila-
delphia. Stone, 2½ stories, hot water heat,
electric light, tile work, Spanish tile roof,
hardwood floors.

Residence (alts. and add.), 131 Pelham road,
Germantown, Philadelphia. Plans about com-
pleted. Architects, Heacock & Hokanson, 1211
Chestnut street, Philadelphia. Owner, A. C.
Jackson, 6445 Greene street, Philadelphia.
Brick, servant's room and sleeping porch.

Squash Courts, Manheim and Morris streets,
Philadelphia. Architects taking revised bids
due May 9th. Architects, Dreher & Church-
man, Otis Building, Philadelphia. Owners, Ger-
mantown Cricket Club, on premises. Demoli-
tion, excavation, grading, concrete work, hol-
low tile, brick work, Barrett specification roof,
Arex ventilators, carpentry and mill work,
hardware allowance \$50, plastering, iron work,
painting, glazing.

Residence and Garage, Sixth and Chelton
avenue, Philadelphia. Architect taking bids
due May 11th. Architect, Clarence L. Cas-
pary, Mitten Building, Philadelphia. Owner,
Hugh Hamilton, care of architect. Stone, 2½
stories, 54x40 feet, 24x24 feet, variegated
slate roof, hardwood floors, hot water heat,
electric light, tile work.

School, Sixth and Erie avenue, Philadel-
phia. Architect taking bids due May 10th.
Architect, C. J. Cumiskey, 86 West Sharp-
naek street, Philadelphia. Owners, Our Lady
of Pompeii, Rev. Joseph Lazza, 632 West Erie
avenue, Philadelphia. Brick, stone, steel, 3
stories and basement, 56x100 feet, slag roof,
maple and cement floors, plumbing (heating
reserved), electric light, metal lath, tile work,
bond, ornamental iron work.

School, Lebanon avenue and George's lane,
Philadelphia. Architect taking bids due May
10th. Architect, Peter F. Getz, Victory Build-
ing, Philadelphia. Owners, St. Barbara's Ro-
man Catholic Church, Rev. J. L. N. Wolfe and
D. Cardinal Dougherty, Eighteenth and Sum-
mer streets, Philadelphia. Stone and steel, 3
stories and basement, 62x116 feet, slag roof,
maple and cement floors, steam heat, electric
light, metal lath, tile work, bond, ornamental
iron work.

Abington Junior High School, Highland,
South of Susquehanna avenue, Philadelphia.
Owners taking bids due May 20th. Architects,
Heacock & Hokanson, 1211 Chestnut street,
Philadelphia. Owners, Abington School Board,
G. Oberholtzer, Glenside, Pa.

Store Building, 2250 North Broad street,
Philadelphia. Architects taking bids due May
9th. Architects, Magaziner, Eberhard & Har-
ris, 1701 Walnut street, Philadelphia. Owners,
Uptown Realty Co., Broad below Dauphin
street, Philadelphia. Brick, steel, 3 stories and
basement, slag roof, pine and maple floors.

Residences (4), \$36,000 total. (1) Crest-
mont street, West of Knight's road, Philadel-
phia. (1) Crestmont, West of Meadow lane,
Philadelphia. (1) Meadows lane, North of
Ellicott avenue, Philadelphia. (1) Orchard
road, South of Crestmont street, Philadelphia.
Permit issued. Owner, T. E. Coale, Twenty-
sixth and Susquehanna avenue, Philadelphia.
Stone, 3 stories, 92 feet x irregular. 50x21
feet, 21x32 feet, 30x37 feet, 23x28 feet, 66x44
feet, slate roof, hardwood and pine floors, hot
water heat, electric light, tile work.

Residences (2), Garages (18), \$19,000.
3426-28 Midvale avenue, Philadelphia. Permit
issued. Architect, private plans. Owner, M. J.
McCrudden, Thirty-fourth and Midvale ave-
nue, Philadelphia. Brick, 2 stories, 16x34 feet,
10x12 feet, garages, 1 story, 9x18 feet, slag
roof, hardwood, pine and cement floors, hot
water heating.

Apartment, \$12,000. 1652 Dyre street, Phil-
adelphia. Permit issued. Architect, C. C. Carn,
Jr., 1654 Dyre street, Philadelphia. Owner, C.
C. Carn, Jr., 1654 Dyre street, Philadelphia.
Brick, 3 stories, 26x96 feet, slag roof, hard-
wood and pine floors, hot water heat, electric
light.

Store and Residence, \$5,500. Southeast Cor-
ner Englewood and Loretto streets, Philadel-
phia. Permit issued. Architect, private plans.
Owner, Elvin W. Schroppe, 630 Locust avenue,
Philadelphia. Brick, 2 stories, 16x50 feet, slag
roof, hardwood and pine floors, hot water
heat, electric light.

Residences (32), \$135,000. West side Twen-
tieth street, North of Seventy-second avenue,
Philadelphia. Permit issued. Architect, pri-
vate plans. Owner, Samuel J. Kennedy, 1502
West Lindley avenue, Philadelphia. Brick, 2
stories, 16x41 feet, 12x11 feet, hot water heat,
electric light, slag roof, hardwood and pine
floors.

Pump House, \$10,000. North side Penrose
Ferry road, East of Schuylkill River, Phila-
delphia. Permit issued. Architect, private
plans. Owners, Gulf Refining Co., P. O. Box
1567, Philadelphia. Brick, 1 story, 62x120
feet.

Gas Station, \$3,500. Southeast Corner Fifty-
seventh and Lancaster avenue, Philadelphia.
Permit issued. Owners, Standard Oil Company
of Pennsylvania, Public Ledger Building, Phil-
adelphia. Tile and stucco, 1 story, 15x18 feet.

Manufacturing Building (add.), \$50,000.
East side Hammond street, North of Olney
avenue, Philadelphia. Permit issued. Archi-
tects, Carson & Carson, 22 South Fifteenth
street, Philadelphia. Owners, Heintz Manu-
facturing Co., Front and Olney avenue, Phila-
delphia. Brick, 1 story add., 60x200 feet.

Residences (2), \$21,000. North side Warden
Drve. West of Vaux street, Philadelphia. Per-
mit issued. Architect, private plans. Owner,

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John H. McClatchy, Sixty-ninth and Market streets, Upper Darby. Brick, 3 stories, 20x36 feet, 20 feet x irregular, hot water heat, electric light, hardwood and pine floors.

Control House, \$5,000. North side Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Owners, Gulf Refining Co., P. O. Box 1567, Philadelphia. Brick, 1 story, 52x86 feet.

Store, Residence and Garage, \$5,200. Southwest Corner East Venango and Janney streets, Philadelphia. Permit issued. Architect, private plans. Owner, Stephen Dudek, 2224 East Venango street, Philadelphia. Brick, 2 stories, 20x62 feet, garage, 1 story, 9x20 feet, slag roof, hot water heat, electric light.

Bridge, Market street, over Schuylkill River, Philadelphia. Work contemplated. Owners, City of Philadelphia, City Hall. Cut stone.

Miscellaneous Work. Low bidders. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Crispin street, Decatur to Rhawn, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$3,760.60. Seventy-eighth street, Island to Madison, F. A. Canuso & Son, 804 South Twelfth street, Philadelphia, \$5,410.65. Repairs to intersection, Broad and Morris streets, Eastern Paving Co.,

1600 Arch street, Philadelphia, \$2,179.85. Reinforced trusses and steel, Walnut Street Bridge, Satter Brothers Co., 1015 Chestnut street, Philadelphia, \$7,450. Furnish and erect platform scale for weighing trucks, Tri-State Engineering & Construction Co., Finance Building, \$11,042.

Bakery Oven, \$3,000, N. E. Cor. 9th and Jefferson Sts., Philadelphia. Permit issued. Architect, private plans. Owners, New Standard Baking Co., on premises.

Residences (22), Brent Rd. bet. Chestnut and Walnut St., Philadelphia. Owner taking bids. Architect, private plans. Owner, Jos. K. Seidle, 5239 Chestnut St., Philadelphia and 7217 Calvin Rd., Upper Darby, Pa. Brick, 2 stories 16 feet x 40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work.

Buildings, Girard Point, Philadelphia. Plans in progress. Architect E. B. Lee, Pittsburgh, Pa. Owner, Gulf Refining Co. L. R. Jones, Girard Point, Philadelphia. Brick, steel, concrete, 1 and 2 stories.

Day & Zimmerman, 122 N. Broad Street, Philadelphia, Engr. Engr. taking bids due May 13th for delivery to Gratersford, Pa. Brass pipe and fittings.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store and Dwelling, 2831 Girard avenue, Philadelphia. Contract awarded Philip Hai-bach Contracting Co., 1261 North Twenty-sixth street. Architect, private plans. Owner, George A. Leins, 2825 Girard avenue, Philadelphia. Brick, steel, 3 stories and basement, 18x100 feet, slag roof, oak and pine floors, plumbing, hot water heat, electric light, metal lath, tile work, metal bulks.

Burner Building and Filter Building, Girard Point, Philadelphia. Contract awarded Cramp & Co., Denckla Building, Philadelphia. Architect, Edward B. Lee, Chamber of Commerce, Pittsburgh, Pa. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Brick, reinforced concrete, steel, 52 feet high, 40x114 feet, 66 feet high, 66x98 feet.

Review Club (alts.), Oak Lane, Philadelphia. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia. Architects, Trout & Truscott, Land Title Building, Philadelphia. Owners, Review Club of Oak Lane, Philadelphia. Excavation, stone work, water-

proofing, concrete and cement work, structural steel, metal lath, plastering, carpentry, mill work, maple floors, metal partitions, hardware, electric work, painting, glazing, plumbing, steam heat.

Loft Building, 2116-30 Arch street, 2123-31 Walden street, Philadelphia. Contract awarded Superb Realty Co., Water and Wolf streets, Philadelphia. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owners, Archway Corporation, Franklin Trust Building, Philadelphia. Brick, steel, concrete, 5 stories, 138x108 feet, slag roof, concrete floors, elevators, steam heat, electric light.

Alterations and Additions, 1508-10 Pine street, Philadelphia. Contract awarded John N. Gill Construction Co., 1500 Chestnut street, Philadelphia, who is taking sub-bids. Architect, private plans. Owner, name withheld. Brick, steel, 2 stories and basement, 27x24 feet, slag roof, cement and oak floors, plastering, painting, glazing, carpentry and mill work, linoleum floors.

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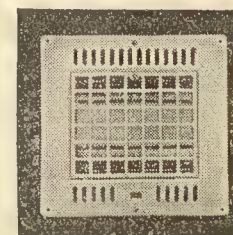
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Stores (12), Broad and Olney avenue, Philadelphia. Contract awarded Barclay-White

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Co., 1713 Sansom street, Philadelphia. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Grange Development Co., care of William Greenhouse, care of architects. Brick, steel, 1 story and 2 stories, 430x430x60 feet, slag roof, oak, pine and cement floors, electric light, metal lath, tile work, iron work.

Store (alterations), 1305 Market street, Philadelphia. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia. Architect, private plans. Owners, General Citrous Store Co., care of builder. General alterations.

Store (alts.), \$5,000. 1502-04 Market street, Philadelphia. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia. Architect, J. Bernard Peiffer, 44 West Eighteenth street, New York. Owners, Happiness Candy Co., 431 Hudson avenue, New York. New front.

Residence (alts.), 2322 North Broad street, Philadelphia. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia. Owner, Rev. Leon Elmaleh, on premises. General interior alterations.

Store Front, 5135 Market street, Philadelphia. Contract awarded A. J. Weiss, 5143 Chancellor street, Philadelphia. Architect, John J. Carroll, 1619 Chestnut street, Philadelphia. Owner, care of builder. Zenethern, metal work, copper bars, plate glass.

Club House, 1906 Rittenhouse Square, Philadelphia. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia. Owners, Ethical Culture Society, Dr. Brubaker, 1324 Spruce street. Architect, Ralph Bencker, Thirteenth and Chestnut streets, Philadelphia. Demolition, excavation, bond, floor hardener, 3 stories and basement, 95x40 feet, cement floors, structural steel, brick work, damp-proofing, caulking, bluestone, iron work and stairs, ornamental iron work, metal toilet partitions, kalamein doors, marble and tile work, slag roof, bronze work, metal windows, metal lath, plastering, oak and pine floors carpentry and mill work, painting, glazing, hardware.

Apartment House (3 units), \$300,000. Northwest Corner Walnut lane and Morton street, Philadelphia. Contract awarded S. Feinstone, Almonessen, N. J. Architects, Durham Brothers, 34 South Seventeenth street, Philadelphia. Owner, Paul Diamond, Almonessen, N. J. Brick, 4 stories, 43x143 feet, 139x43 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work.

Store (add. and alts.), \$6,000. 5609 Germantown avenue, Philadelphia. Contract awarded H. E. Baton, Inc., 1713 Sansom street, Philadelphia. Architect, private plans. Owners, Ler-

ner Stores Corporation, 352 Fourth avenue, New York. Brick, 1 story add., 22x30 feet, general alterations.

Warehouse (alts.), \$2,000. Northeast Corner Second and Columbia avenue, Philadelphia. Contract awarded J. Bender, 1501 North American street, Philadelphia. Architect, private plans. Owner, H. Rubin, Second and Columbia avenue, Philadelphia. General alterations.

Synagogue (add. and alts.), \$2,000. 307 West Tabor road, Philadelphia. Contract awarded Philip Clark, 827 North Marshall street, Philadelphia. Owners, Bnai Israel Congregation, on premises. Brick, 1 story add., 7x43 feet, 34x19 feet, general alterations.

Foundations for Manufacturing Plant, West side Fifty-sixth street, North of Paschall avenue, Philadelphia. Contract awarded Barrett & Hilp, Fifty-sixth and Paschall avenue, Philadelphia. Architect, Leland S. Rosener, 233 Sansome street, San Francisco, Calif. Owners, Federal Container Co., Fifty-sixth and Paschall avenue, Philadelphia. Concrete.

Manufacturing Building (alts.), \$7,000. East side Nineteenth street, South of Westmoreland street, Philadelphia. Contract awarded Charles T. Clarke, Germantown and Sedgley avenues, Philadelphia. Architect, private plans. Owners, Exide Storage Battery Co., on premises. General alterations.

Warehouse, \$4,000. 2432-38 North Bodine street, Philadelphia. Contract awarded James Scollon, 422 Diamond street, Philadelphia. Owners, American Fabricated Steel Co., 2442 North Bodine street, Philadelphia. Brick, 1 story, 55 feet 8 inches x 50 feet.

Manufacturing Building (alts.), \$3,000. Southeast Corner Fifth and Noble streets, Philadelphia. Contract awarded Pierce-Phelps Co., Inc., 224 North Thirteenth street, Philadelphia. General alterations.

Residence and Store (alts.), \$5,000. 2600 Lehigh avenue, Philadelphia. Contract awarded Harry Alterman, 2731 West Somerset street, Philadelphia. Architect, private plans. Owner, M. Auerback, on premises. General alterations.

Hospital (alts.), \$2,000. Northwest Corner Thirty-third and Lancaster avenue, Philadelphia. Contract awarded Frank E. Wallace, 337 South Camac street, Philadelphia. Owners, Rush Hospital, on premises. General alterations.

Bowling Alleys, \$2,000. 1001-25 Rising Sun avenue, Philadelphia. Contract awarded W. T. Campbell, 2411 North Hancock street, Philadelphia. Owners, Tioga Recreation Corporation, on premises. Interior alterations.

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Store and Residence (alts.), \$3,250. Southwest Corner Sixteenth and Pine streets, Philadelphia. Contract awarded C. J. Short, care of architect. Architect, J. A. Whelan, 1317 Pine street, Philadelphia. Owner, Louis Stecker, Jr., 1222 Walnut street, Philadelphia. General alterations.

Residence (alts.), \$2,400. 5025 Penn street, Philadelphia. Contract awarded Busby & Propert, 1658 Unity street, Philadelphia. Architect, private plans. Owner, Mrs. H. B. Antrim, on premises. General alterations.

Residences (5), \$16,000. West side Gaul street, North of Tioga street, Philadelphia. Contract awarded A. A. Construction Co., Victory Building, Philadelphia. Architect, private plans. Owner, J. M. Kennedy, 407 Van Pelt street, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, pine floors, hot water heat electric light.

Gas Tank, \$21,000. Northeast Corner Richmond and Tioga streets, Philadelphia. Contract awarded United Engineers & Constructors, 112 North Broad street. Owners, Philadelphia Gas Works Co., Broad and Arch streets, Philadelphia.

Residence and Store (alts.), \$15,000. 1215 Chestnut street, Philadelphia. Contract awarded Michigan Store Fixture Co., Detroit, Mich. Architect, private plans. Owners, Mawson & DeMany, on premises. General alterations.

Residence, \$12,000. East side Vaux street, North of Midvale avenue, Philadelphia. Contract awarded Edward J. Heinke, 505 Church road, Philadelphia. Architect, Paul M. Hesser, Jr., 225 South Sixth street, Philadelphia. Owner, H. Alexander Matthews, 1714 Chestnut street, Philadelphia. Stone, 3 stories, 27x37 feet, slate roof, hardwood and pine floors, hot water heat, electric light.

Office (alts.), \$2,300. Southwest Corner Broad and Chestnut streets, Philadelphia. Contract awarded Thomas S. Gassner, Wayne avenue and Apsley street. Owners, Real Estate Land Title & Trust Co., on premises. General alterations.

Residence and Store (add.), \$3,000, 3003 Kensington Ave., Phila. Contract awarded Benj. Memorofsky, 1906 S. 4th St., Phila. Architect, private plans. Owner, Mr. Hollander, 3013 Kensington Ave., Phila. Brick, 2-story add., 15 feet x 19 feet, slag roof, electric light.

Residence and Store (alts.), \$3,000, S. W. Cor. 58th and Willow Ave., Phila. Contract awarded MacVaugh Const. Co., 6134 Market St., Phila. Architect, private plans. Owners, Parkway Central B. & L. Assn., Provident Trust Building, Philadelphia. General alterations.

Pennsylvania Construction News

Telephone Exchange, Welsh street, between Post Office and Pennsylvania Railroad, Chester, Pa. Work contemplated. Owners, Bell Telephone Co., W. S. James, Chester, Pa. 80x125 feet.

High School, Chester, Pa. Work contemplated. Owner, D. Cardinal Dougherty, Eighteenth and Summer streets, Philadelphia.

Residence, Northeast of Milton street, West of Vernon road, Stenton, Pa. Work contemplated. Owner, C. T. Wakefield, 1218 Chestnut street, Philadelphia. Size of lot 780x132 feet.

Residences (2), Middfield and Lakeside avenues, Wynnewood, Pa. Plans in progress. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, H. J. McLean, 521 South Fifty-second street, Philadelphia. Stone, 2 stories.

Residence, Hollbrook and Glenview roads, Bryn Mawr, Pa. Plans in progress. Architects, Thomas Martin & Kirkpatrick, 220 South Sixteenth street. Owner, Elmer G. Pursley, 1421 Chestnut street, Philadelphia. Stone, 2½ stories. Note Architects.

Residence, Marshall street, West Chester, Pa. Plans in progress. Architect, William J. Coreoran, West Chester, Pa. Owner, Mrs. P. D. Maule, West Chester, Pa. Hollow tile, stucco, 2½ stories, 28x38 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work.

Residence, Ashbridge street, West Chester, Pa. Preliminary plans in progress. Architect, William J. Coreoran, West Chester, Pa. Owner, name withheld. Brick, 2½ stories, 30x70 feet, wing 20x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Church and School, North Main street, Wilkes-Barre, Pa. Revised plans in progress. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, St. John the Evangelist Roman Catholic Church, Rev. D. J. Kane, 115 North Main street, Plains, Pa. Brick, steel, 1 story, 130x65 feet, gypsum roof, concrete and oak floors, hollow tile, safety treads, art glass, tile, marble, steel sash, ornamental iron work.

Residence and Garage, Prospect Park, Pa. Revised plans in progress. Architect, J. Coshland, Chester, Pa. Owner, Ira Short, Essington, Pa. Brick, asbestos shingle roof, hardwood floors, cement floors, hot water heat, electric light, tile work.

Residence and Garage, Drexel Park, Pa. Plans in progress. Architect, Harold E. Williams, Drexel Park, Pa. Owner, Sarah I. Cosgrave, care of architect. Stone, clapboard, 2½ stories, 44x35 feet, shingle roof, hardwood and cement floors, hot water heat, electric light, tile work.

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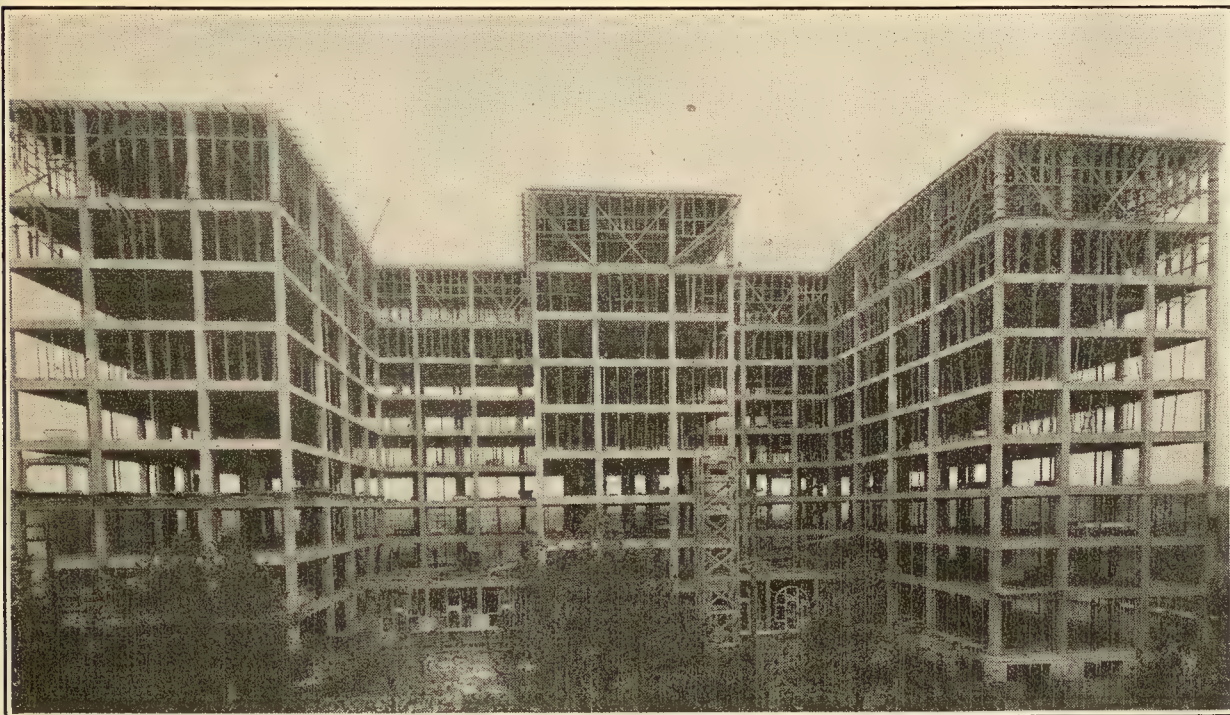
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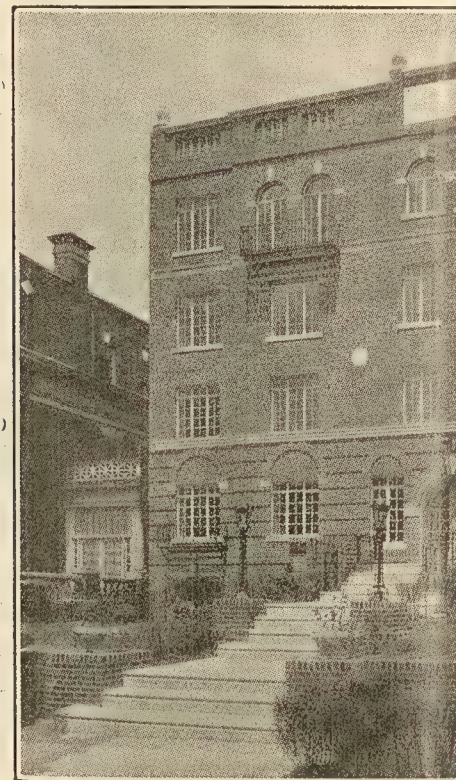
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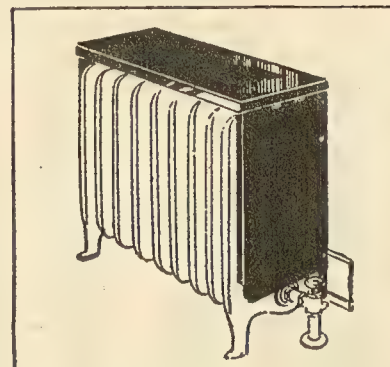
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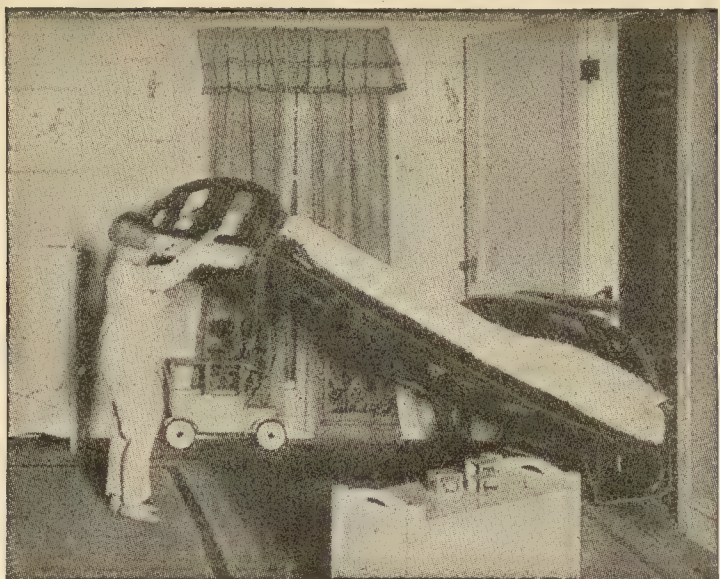
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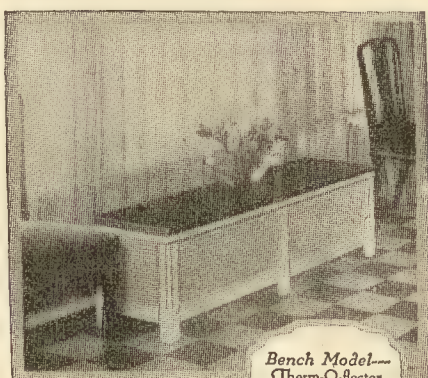
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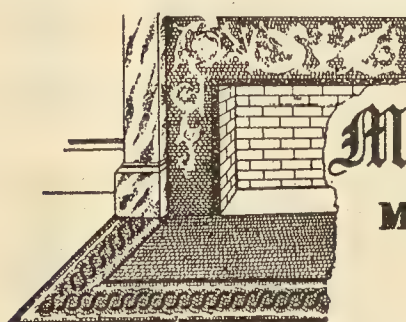
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Chester County, Pa. Preliminary plans being drawn. William A. Mowrer, chairman of Building Committee, Bridge and Penn streets, Spring City, Pa., will take bids. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Bethel Methodist Episcopal Church, William A. Mower, chairman Building Committee, Bridge and Penn streets, Spring City, Pa. Stone, 2 stories, 37x63 feet, 32x50 feet, 12x10 feet, slate roof, maple floors, steam heat, electric light, bond, rolling partitions and curtains, kitchen equipment, brass railing.

Store and Apartments (4) (add. and alts.), Main street and Fourth avenue, Royersford, Pa. Plans in progress. Owner will take bids. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, W. H. Borgenzer, White Star Market, Main street and Fourth avenue, Royersford, Pa. Brick, stone, 4 stories, 32x62 feet, slate and tin roof, pine and composition floors (heating reserved), electric work, wood and steel sash.

School (Consolidated Junior), Montgomery avenue and Henderson road, Upper Merion, Pa. Site approved by State Board of Education. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Upper Merion School Board, Upper Merion, Pa.

Bank, Luzerne, Pa. Architects will be ready for bids this week. Architect, C. J. Schmitt, 198 North Main street, Wilkes-Barre, Pa. Owners, Merchants' & Miners' Bank of Luzerne, 86 Main street, Luzerne, Pa. Stone, general interior and exterior alterations, bronze work.

Health Center Building, Wilkes-Barre, Pa. Architect will be ready for bids in about one week. Architect, T. H. Atherton, 139 South Main street, Wilkes-Barre, Pa. Owners, Angeline Elizabeth Kirby Memorial Health Center, care of architect. Brick, steel, 2 and 3 stories.

Church, Georgetown, Pa. Architect will be ready for bids next week. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre. Owners, St. John the Baptist Greek Catholic Church, care of architect. Brick veneer, 1 story and basement, 40x160 feet, slate roof, yellow pine floors, electric light, tile work.

School, Shenandoah, Pa. Owners will be ready for bids about June 1st. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Shenandoah School Board, Dr. N. C. Brennan, president, 13 South Main street, Shenandoah, Pa.; J. D. Creary, secretary, South West street, Shenandoah, Pa. Pine-

floors, concrete work, iron work, new plumbing, electric work, heating, blackboards.

School (add.), Nether Providence, Pa. Plans completed. Owners will soon take bids. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Nether Providence Township School Board, J. R. Hoover, secretary, Moylan, Pa. Brick, 2 stories and basement, 6 class rooms.

Tennis Club, Bethayres, Pa. Architect will build and is taking sub-bids. Architect, J. H. Rackie, 4341 Frankford avenue, Philadelphia. Owners, Roosevelt Racquet Club, care of architect. Frame, 1 story, 18x46½ feet, slate surface slag roof, sheet rock, block foundations, plumbing, mill work, brick lreplaces.

Residence, Clifford Park, Allentown, Pa. Engineer will take sub-bids. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, Irwin Peters, care of engineer. Stone, 1 story, 60x41 feet, concrete and tile roof, hardwood floors, electric light, tile work.

Garage and Sales Room, Allentown, Pa. Engineer will sublet. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owners, Klein Motor Co., 12 North Eleventh street, Allentown, Pa. Brick, steel, 3 stories, 130x80 feet, slag roof, concrete floors, cast stone, fire doors, steel sash, metal lath, tile, unit heat, electric light.

Mausoleum and Chapel, Mount Rose, Pa. Architect will take sub-bids. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owners, Mount Rose Cemetery, R. W. Searle, Mount Rose, Pa. Native stone, 1 story, 16x20 feet (15 crypts), variegated slate roof, tile work, Indiana limestone.

Club House, \$30,000. Selinsgrove, Pa. Plans in progress. Owners will build. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owners, College Fraternity Developing Co., Miners' Bank Building, Wilkes-Barre, Pa. Brick, steel, 2 stories and dormitory, 42x78 feet, hardwood floors, steam heat, electric light, tile work.

Residence, near Narberth, Pa. Plans in progress. Ready for bids in 3 weeks. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Dr. Russell S. Boles, Fifty-third and Overbrook avenue, Philadelphia. Stone, 2½ stories, 28x128 feet, slate roof, hardwood floors, vapor heat, electric light, 6 tile baths, steel sash.

Grade School, Wilkes-Barre Township. Plans in progress. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Township School Board, Mr. Shindel, secretary, Georgetown, Pa. Brick ve-

neer, 2 stories, 58x54 feet, slag roof, pine floors, steam heat, electric light.

Garage and Chauffeur's Quarters Edgemont, Pa. Plans about completed. J. S. Cornell & Son, 1528 Cherry street, Philadelphia, will build. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Frank Mauran, Liberty Building, Philadelphia. Stone, 2½ stories, 25x59 feet, hot water heat, electric light, shingle roof, pine and cement floors.

Church, Chambersburg, Pa. Owners taking bids due May 14th. Architects, Office of John B. Thomson & L. DeForrest Emmert, 1321 Arch street, Philadelphia. Owners, Trinity Lutheran Church, Chambersburg, Pa. Stone, east stone, steel, 1½ stories and basement, 109x52 feet, slate roof, maple, cement floors, linoleum, steam heat, electric light, metal lath, bond, ornamental iron work, leaded glass, composition floors, demolition, excavation, steel casement sash, caulking, wall finish, hardware, iron work, leaded glass.

Barn (alts. and add.), Wallingford, Pa. Engineer taking bids due May 9th. Plans by E. Kenny Crothers, Media, Pa. Owners, Spring Haven Country Club, on premises. Stone, concrete block, 2 stories, 20x50 feet, shingle roof, cement floors, tile work, ornamental iron work.

Store and Apartment, Phoenixville, Pa. Architect taking bids due May 11th. Architect, John H. Mowere, Phoenixville, Pa. Owner, James Lengel, Phoenixville, Pa. Brick 2 stories, 20x75 feet, built-up roof, composition and pine floors, vapor vacuum heat, electric light, tile work, plate glass, metal bar.

Residence and Garage, No. 607 and No. 608, Lots No. 5 and No. 10, Swarthmore, Pa. Architect taking bids due May 13th. Architect, J. Linernd Conarroe, 1518 Walnut street, Philadelphia. Owner, Louis Cole Emmons, Swarthmore, Pa. Brick, steel, 2½ stories and basement (608) 54x21 feet, (607) 64x25 feet, hot water and vapor heat, electric light, metal lath, tile and marble work, casement windows, ornamental iron work, Zenethern, oak, pine and cement floors, slate and shingle roof, plumbing, hollow tile, flagstone.

High School Annex Building, Seventeenth and Linden streets, Allentown, Pa. Owners taking bids due May 20th, at 8 P. M. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Allentown School District, T. P. Wenner, secretary, 29 South Penn street, Allentown, Pa. Brick, cut stone, limestone, steel, 4 stories and basement 125x109 feet (plumbing, heating, electric and ventilating separate), gymnasium building, 2 stories and basement, 139x85 feet, excavation, waterproofing, concrete and cement, cinder block, gypsum block, metal lath, tile and terrazzo, dampproofing, ornamental iron, safety treads, steel sash, maple floors, fireproof doors, floor hardener, steel lockers, steel cabinet, granite caulking, Barrett specification roof, athletic field seating, bond, reinforced concrete, metal lath, plastering, structural steel, ornamental iron, steel sash, carpentry, mill work, steel deck, built-up roof, sheet metal work. Deposit, \$25, refunded. Certified check, 5 per cent., or bid bond.

Manual Arts Building and School, Prospect Park, Pa. Plans completed, ready for bids. Architect, C. W. Brazer, Crozer Building, Chester, Pa. Owners, Prospect Park School Board, J. Leslie Galloway, Moore, Pa. Brick, 2 stories and basement, 5 class rooms.

Residence and Garage, Marple Hill, Pa. Owner will build and will take sub-bids in about 10 days. Architect, H. Edward Williams, Drexel Park, Pa. Owner, J. W. Murray, 330 West Second street, Media, Pa. Stone, frame, 2½ stories, 35x72 feet, shingle roof, hardwood floors, electric light, tile work.

High School, South Williamsport, Pa. Own-

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ers taking bids due May 14th, at 4 P. M. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, South Williamsport School District, A. B. Elder, supervising principal, High School Building, South Williamsport. Brick and steel, reinforced concrete, 2 stories, 167x57 feet 10 inches, 176x64 feet (plumbing, heating, electric and ventilating separate bids), excavation, concrete floors, cinder block, hollow tile, cast stone work, asbestos built-up roof, yellow pine floors, metal lath, ornamental plastering, composition floors, steel casement sash, steel sash, painting, glazing, hardware, kalamein doors, hollow metal toilet partitions and doors, tile work, iron stairs, metal window guards, acoustical treatment, Celotex, Duntile roof ventilators. Certified check, 5 per cent of bid.

School (alts.), Plymouth, Pa. Owners taking bids due May 13th. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Plymouth School Board, Mr. Matthews, secretary, West Main street Building, Plymouth, Pa. Maple floors, austral windows, roof ventilators, blackboards, general alterations (interior and exterior), Warren Webster heating (heating and ventilating separate).

School, Newport, Pa. Architect taking bids. Architect, T. A. Foster, Brooks Building, Wilkes-Barre, Pa. Owners, Lehigh & Wilkes-Barre Coal Co. and Glen Alden Coal Co., Wilkes-Barre, Pa. Brick, steel, 2 stories, 60x190 feet, built-up roof, maple floors, hollow tile, roof ventilators, waterproofing and damp-proofing, ornamental iron, iron stairs, bond, fire doors, steel sash, metal lath, electric work.

Apartment House, Ardmore, Pa. Architect taking bids due May 13th. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owner, M. S. Brook, care of architect. Brick, steel, reinforced concrete, 3 stories and basement, 134x35 feet, slag roof, oak and pine floors, plumbing, steam heating, oil burner, electric light, metal lath, fire doors, bond, ornamental iron work, kitchen equipment, Mernervator incinerators, linoleum floors.

High School, Collingdale, Pa. Low bidders: S. Sidney Lewis, 121 North Broad street, Philadelphia, \$94,478; Philip Lange, Audubon, N. J., \$96,341; electric, Walter Lyle, 5932 Pulaski avenue, Philadelphia, \$6,342; heating, Mechanical Equipment Co., 214 South Twelfth street, \$11,494; plumbing, Wilson Brothers, Collingdale, Pa., \$7,650. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, School Board, W. H. Milbourne, Collingdale, Pa.

Manual Arts School, Hatboro, Pa. Low bidders: Chancellor Day, 3504 Rhawn street, Philadelphia, \$10,850; Hood & Groos, 1535 Chestnut street, \$11,590; heating, American Heating & Ventilating Co., 1505 Race street, \$2,500; plumbing, Henry Wilkes, Hatboro, Pa., \$675; electric, Powell's Electric Shop, Hatboro, Pa., \$231. Architect, W. Walter Whitman, Harrisburg, Pa. Owners, Hatboro School Board, F. W. Hosler, Hatboro, Pa.

School, Edgemont avenue, Parkside, Pa. Low bidders: Nichols & Becket, Glenolden, Pa., \$12,890; T. B. Nash, Chester, Pa., \$13,271; plumbing, L. Hand, Parkside, Pa., \$6,025; heating, W. F. Fowden, Chester, Pa., \$5,585; warm air, American Heating & Ventilating Co., Schaff Building, \$4,750; electric, George Wood, Chester, Pa., \$550. Architect, C. M. Ryder, Chester, Pa. Owner, Parkside School District, J. H. Phipps, Chester, Pa.

Fire House, Berwyn, Pa. Low bidder, F. H. Wilson, Ardmore, Pa. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Berwyn Fire Company, No. 1, Edward Stumpf, chairman, Berwyn, Pa. Brick, cast stone, steel, 2 stories and basement, 80x40 feet.

Factory, Spring Mills, Pa. Low bidder:

Frank G. Stewart, 1520 Locust street, Philadelphia. Architect, R. B. Bencker, 1601 Chestnut street, Philadelphia. Owners, Walker Brothers, Spring Mills, Pa.

Bridges (3), Upper Salford Township over Macoby Creek; Green Lane, over Depp Creek; King of Prussia, Lower Merion Township, Pa. Plans in progress. Owners will soon take bids. Owners, Commissioners of Montgomery County, Norristown, Pa.

Locksly Bridge, No. 177, over Chester Creek, Pa. Owners taking bids due May 14th, 10 A. M. (Standard Time). Owners, Delaware County, G. T. Wades, Media, Pa.

Caddy Quarters and Professional Shop, near Bethayres, Pa. Architect will be ready for bids in 10 days. Architect Silverman and Levy, N. E. Cor. 13th and Chestnut Sts., Philadelphia. Owner, Philmont Country Club, Ellis Gimbel, President, on premises. Stone, hollow tile, stucco 1 story gypsum roof, concrete floors, plumbing, electric light.

Concrete Wall, \$10,000, N. E. Cor. 18th and Herr Sts., Harrisburg, Pa. Owners will be ready for bids in about ten days. Owners, Commonwealth of Pennsylvania, Department of Property and Supplies, Bureau of Engineering and Construction, Harrisburg, Pa.

Hospital, Easton, Pa. Architect, The Ballinger Co., 12th and Chestnut Sts., Philadelphia. Owner, Easton Hospital, H. Lehr, 1200 Butler St., Easton, Pa. Architect taking bids due May 13th on lighting, plumbing. Bids due May 9th on sterilizing, incinerators, refrigerators, refrigeration.

Resurfacing Springfield Rd., Providence to So. Boundary Line, Aldan, Pa. Engr. Damon & Foster, Sharon Hill, Pa. Owner, Boró of Aldan R. E. Kraber, Aldan, Pa. Owner taking bids due May 16th, 7 P. M. (S. T.) Cert. check 10 per cent.

Garage, \$65,000. Exact location withheld, near Philadelphia. Architect ready for bids in two weeks. Architect, A. Burton Stanhope, G. F. Bennett Equitable Bldg., Wilmington. Owner, Name withheld. Brick, steel, 1 story 100 feet x 160 feet slag roof, cement floors.

Residence, Haverford, Pa. Plans in progress. Architect, J. W. Ames, 148 State St., Cambridge, Mass. Owner, Francis H. Bohlen, 224 S. Aberdeen Plane, Wayne, Pa. Stone 2½ stories.

Residence Operation, Beechwood St., Chester, Pa. Owner taking sub-bids on 1st unit of 12. Architect, E. Allen Wilson, 1600 Arch St., Phila. Owner, Benj. Herman, 4730 Pine St., Philadelphia. Brick, concrete block, stucco, 2 stories 16 feet x 44 feet, hot water heat, electric light, tile work, cement work, hardwood floors, creodipt shingle roof, garages brick, 1 story 10 feet x 20 feet, slag roof.

Church and Sunday School, Chestnut St., Kent Rd., Heather Rd., Upper Darby, Pa. Architect taking bids due May 10th at noon. Architect Stanford B. Lewis, 1713 Sansom St., Phila. Owner 1st Church of Christ Scientist, John Tatum, 6235 Chestnut St. Brick, stone, reinf. concrete, granite, limestone, 1 and 2 stories and base 80 feet x 102 feet hollow tile, waterproofing, bond, excavation, gypsum roof, hollow gypsum blocks, area gratings, iron work, slag roof, metal lath, plastering, carpentry and mill work, steel sash, kalamein doors, hardware, damp-proofing, painting, glazing, marble and tile work.

Pennsylvania Contracts Awarded.

Church, Park avenue, Swarthmore, Pa. Contract awarded R. C. Ballinger Co., 925 Walnut

street, Philadelphia. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, First Church of Christ Scientist, Morgan Parson, Moylan, Pa. Stone, steel, 1½ stories and basement, 83x35 feet, bond, excavation, flagstone (Ridgeway or Robinson), reinforced concrete and cement floors, limestone, dampproofing, iron work, slag roof, fire doors, shingle roof (alts.), caulking, carpentry and mill work, metal lath, plastering, pine floors, marble and tile work, electric work, plumbing, brass pipe (American Tube Works), wrought iron pipe (Byers or Reading), vacuum vapor heat, oil burners, boiler (Hart or Crouse), radiators.

Manual Arts School, Hatboro, Pa. Contract awarded. Architect, W. Walter Whitman, Harrisburg, Pa. Owners, Hatboro School Board, F. W. Hosler, Hatboro, Pa. Brick, limestone, steel, 1 story and basement, 91x41 feet, slate roof, pine and cement floors, roof ventilators (plumbing, heating, electric separate). General: Chancellor Day, 3504 Rhawn street, Philadelphia, \$10,850; plumbing, Henry Wilkes, Hatboro, Pa., \$675; heating, American Heating & Ventilating Co., 1505 Race street, \$2,500; electric, Powell Electric Shop, Hatboro, \$231.

Church and Parish House, Stonehurst, Pa. Contract awarded R. C. Ballinger Co., 925 Walnut street, Philadelphia. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owners, St. Giles' Protestant Episcopal Church, Rev. Walter C. Pugh, Upper Darby, Pa. Stone, steel, 89x42 feet, 35x20 feet, 32x40 feet, bond, excavation, concrete and cement work, dampproofing, waterproofing, reinforced concrete and structural steel, marble work, iron stairs, area gratings, carpentry, mill work, area grills, maple and pine floors, rubber tile floors, plumbing, electric work, dumb waiter, slate roof.

Residence and Garage and Chauffeur's Quarters, Norristown, Pa. Architect, E. Lane Crawford, Norristown, Pa. Contract awarded Raymond Houghton, Norristown, Pa. Owner, Joseph M. Ellenberger, Norristown, Pa. Stone, 2½ stories, 36x40 feet, slate roof, hardwood

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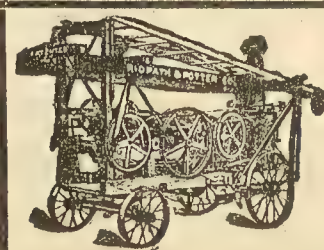
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floors, hot water heat, electric light, tile work.

Hosiery Mills, Street Road, North of Bristol pike, Eddington, Pa. Contract awarded Nelson-Pedley Construction Co., 1510 Chestnut street. Owners, Gray Line Hosiery Mill, George Gray, 5133 Oakland street, Philadelphia. Brick, steel, 1 story, irregular in size, slag roof, cement and pine floors, steam heat, electric light, rolled steel sash, iron work.

Residence and Garage, Fairfax road, Drexel Park, Pa. Contract awarded W. J. Carlson, Schaff Building, Philadelphia. Architect, Roy F. Larson, 112 South Sixteenth street, Philadelphia. Owner, Samuel L. Hibberd, Lansdowne, Pa. Stone, steel, 2½ stories and basement, 61x27 feet, slate or shingle roof, oak and pine floors, painting, glazing, plumbing, hot water heat, electric light, metal lath, tile work, bond, excavation, iron work.

Heating Plant, Media, Pa. Contracts awarded: Heating plant and garage, McCormick-Lenham, Fortieth and Chestnut streets, Philadelphia, \$91,998. Warden's residence, Bowden Construction Co., 1607 Summer street, \$15,700. Heating, Hughes Brothers, Upper Darby, Pa., \$6,198. Plumbing, Hughes Brothers, Upper Darby, Pa., \$6,056. Electric, Independent Wiring Co., 1613 Sansom street, Philadelphia. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, H. M. Birnie, Media, Pa.

Silk Mill, Wilkes-Barre, Pa. Contract awarded John A. Schmitt, Bennett Building, Wilkes-Barre, Pa. Architect, Carl J. Schmitt, 198 North Main street, Wilkes-Barre, Pa. Owner, name withheld. Brick, steel, 2 stories add., 246x58 feet, 34x58 feet, slag roof, maple floors, freight elevator, roof ventilators, heating extension, electric light, steel sash, fire doors.

Wolf Junior High School (alts.), Easton, Pa. Contract awarded E. La Barre, 1918 Hay Terrace, Easton, Pa. Architect, E. H. Wenzelberger, 224 Northampton street, Easton, Pa. Owners, Easton School Board, William Peifer, secretary, Second and Church streets, Easton, Pa. Partition work, toilets, tile, marble, plastering.

Horticultural Group and Add. to Concert Hall, Kennett Square, Pa. Contract awarded William M. Francis, DuPont Building, Wilmington, Del. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owner, Pierre S. DuPont, care of architect. Hollow tile, stucco, 1 story, 85x110 feet, concrete floors, steel sash, ornamental cast iron.

Residence and 2-Car Garage, Morrisville, Pa. Contract awarded James R. Bole, 83 Beechwood avenue, Trenton, N. J. Architect, J. Phelps Pette, 59 North Stockton street, Trenton, N. J. Owner, Raymond E. Phillips, 10 Atterbury avenue, Trenton, N. J. Stone, cinder block, stucco, 2½ stories, 60x58 feet.

Residence, \$40,000. Scranton, Pa. Contract awarded Schmidt Brothers, 1128 Elm street, Scranton, Pa. Architect, A. P. Coon, Union Bank Building, Scranton, Pa. Owner, Ely Harris, 133 South Main avenue, Scranton, Pa. Frame, stucco, 2½ stories.

Residence and Garage, Whitemarsh, Pa. Contract awarded John W. Moffly, 3rd, Germantown avenue and Bethlehem Pike, Philadelphia. Architect, private plans. Owner, Albert L. Freeman, 1808 Chestnut street, Philadelphia. Stone or brick, 2½ stories and basement.

Porch and Store (add.) to Lodge Building, Phoenixville, Pa. Contract awarded W. Sauers, Phoenixville, Pa. Architect, J. H. Mowere, Phoenixville, Pa. Owners, American Legion, A. F. Coffman, Phoenixville, Pa. Brick, 1 story, 16x44 feet, porch 14x44 feet, reinforced concrete roof, porch enclosures.

Residence and Garage (alts. and add.), Wynnewood, Pa. Contract awarded George Gillespie & Co., Swarthmore, Pa. Architects, Karcher & Smith, 1520 Locust street, Philadelphia. Owner, Mrs. Dorothy B. Morgan, 360 Penn road, Wynnewood, Pa. Stone, 2½ stories, 20x30 feet, 1 story, 20x22 feet, shingle roof, hardwood floors, hot water heat electric light tile work.

Residence and Garage, Fairhill road, Wynnewood, Pa. Contract awarded George Kessler Contracting Co., 1733 North Marvine street, Philadelphia. Architect, John W. Keyes, Otis Building, Philadelphia. Owner, Harry C. Kessler, care of builder. Stone, brick, 2½ stories and basement, 40x80 feet, irregular, slate roof, oak and pine floors, hot water heat, tile work, metal lath, ornamental iron work.

Residence and Garage, Drexel Park, Pa. Contract awarded John Turri, Shawmont avenue, Roxborough, Pa. Architect, Harold Edward Williams, Drexel Park, Pa. Owner, Conrad J. Kearns, care of Moore & White, Fifteenth and Lehigh avenue, Philadelphia. Brick, 2½ stories and basement, 37x65 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile and marble work.

Sunken Garden, Chestnut Hill, Pa. Contract awarded D. W. Sperry, Jefferson Building, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia.

phia. Owner, A. H. Lea, Chestnut Hill, Pa. Limestone, stone, masonry.

Fire House, Parker and Rhoads avenue, Collingdale, Pa. Contract awarded J. H. Dawson, Foleroff, Pa., \$29,278. Architect, private plans. Owners, Collingdale Fire Company, No. 2, Collingdale, Delaware County, Pa. Brick, steel, 2 stories, 50x80 feet. composition roof, concrete floors, vapor heat, electric light.

Residence, Quakertown, Pa. Contract awarded Lewis Brothers, Quakertown, Pa. Architect, J. Rapp, Richland, Pa. Owner, A. H. Nicholas, Quakertown, Pa. Stone, 2½ stories, 30x44 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Garage (alts. and add.), Cherry Lane, Wynnewood, Pa. Contract awarded Joseph Mandes & Son, Ardmore, Pa. Architect, A. H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, Walter H. Lippincott, on premises.

Administration Building (alts.), \$3,680. Penhurst, Pa. Contracts awarded Bowden Construction Co., 1607 Summer street, Philadelphia. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Penhurst State School, J. Hubbs Buckman, Plaza Trust Building, Philadelphia. Plumbing, electric separate bids, metal lath, plastering, painting, glazing, hardware, carpentry and mill work, hollow tile, cement work.

Residence, Kingston, Pa. Contract awarded J. W. Thomas, 198 South Washington street, Kingston, Pa. Architect, C. J. Schmitt, 198 North Main street, Wilkes-Barre, Pa. Owner, F. G. Reekies, care of architect. Frame, 2½ stories, 39x28 feet, shingle roof, vapor heat, electric light, tile work.

Residence, Retreat, Pa. Contract awarded H. Mailander, 167 Barney street, Wilkes-Barre, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Central Poor District, Dr. Basket, Retreat, Pa. Brick, 2½ stories, 30x80 feet, slate roof, hardwood floors, steam heat, electric light, tile work.

Road Work, Pennsylvania. Contract awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, Harrisburg, Pa. Beaver County, R-243, Sec. 1AA, Borough Township. One course reinforced concrete. Rinehart Brothers, East Liverpool, Ohio, \$15,100.35.

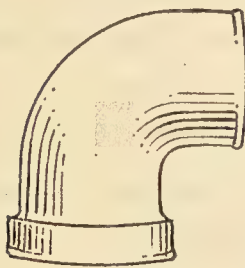
Servants Quarters (alts.), Bryn Mawr Ave., Bryn Mawr, Pa. Contracts awarded Gray Bros., Rosemont, Pa. Architect, Seeburger & Rabenold, 1524 Chestnut St., Philadelphia. Owner, Edwin L. Blabon, care of Geo. W. Blabon Co., 21st andunting Park Ave., Philadelphia. Excavation, stucco, stone work, cement work, plastering, hot water heat, electric work, painting, glazing carpentry and mill work, tile roof, hardware, 1 story 19 feet x 15 feet.

New Jersey Construction News

Mausoleum, Laurel Park, Atlantic City, N. J. Owners will take bids in ten days. Architect, Oscar Schmidt, Chelsea Bank Building, Atlantic City, N. J. Owners, Laurel Park Memorial Cemetery, Laurel Park, care of Paul R. Neuman, Victory Building, Philadelphia. Granite, 120x180 feet, asphalt roof, slate roof, marble floors, reinforced concrete, roof ventilators, roof ventilators, marble ceilings, steam heat, bronze work, copper skylights.

Stores (alts.), 1723 Boardwalk, Atlantic City, N. J. Owners taking sub-bids. Architect, Oscar Schmidt, Chelsea Bank Building, Atlantic City, N. J. Owners, Huyler Confectionery Co., 1204 Chestnut street, Philadelphia, care of Mr. Jaret. General interior and

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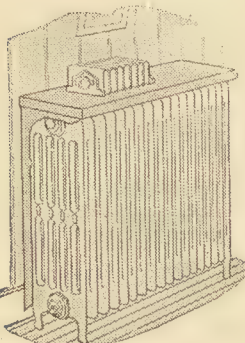
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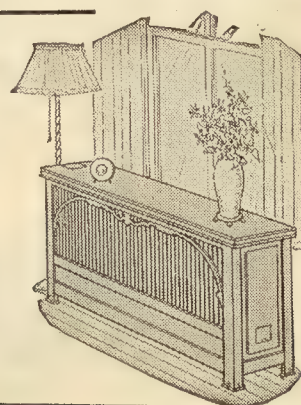
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exterior alterations, dumb waiters, kitchen equipment.

Residences (6), Northfield, N. J. Owner will build. Architect, D. A. Rosenstein, Humphrey Building, Atlantic City, N. J. Owners, Mahoney Construction Co., Pleasantville, N. J. Frame, 2 stories, 22x30 feet, shingle roof, oak floors, hot water heat, electric light, tile work.

School (add.), Stratford, N. J. Preliminary sketches drawn. Architect selected. Architect, F. Herbert Radey, 428 Market street, Camden, N. J. Owners, Stratford School Board, Mr. Seybold, supervising principal, Harry F. Reis, president, Stratford, N. J. Second story add. to present building.

Tunnel, under railroad track between Twenty-seventh and Thirty-sixth street, Camden, N. J. Work contemplated. Survey to be made. Owners, City of Camden, N. J., F. B. Hanna, Director, Camden, N. J.

Factory (add.), Bridgeton, N. J. Architect taking bids due May 10th. Architect, Walter L. Custer, 75 East Commerce street, Bridgeton, N. J. Owner, M. C. Schrank, Bridgeton, N. J. Brick and steel, 2 stories and basement, 136x78 feet, slag roof, pine and cement floors, ornamental iron work.

Miscellaneous Playground Apparatus, Camden County, N. J. Owners taking bids due May 16th, 8 P. M. (Daylight Saving Time). Owners, Camden County, Park Commissioner, Z. M. Caster, 807 Wilson Building, Camden, N. J. Contract 30-6—Furnish playground apparatus for Camden County Park System, Gloucester, N. J. Contract 21-2—Furnish playground apparatus for Camden County Park System, Berlin, N. J. Certified check, 10 per cent. each. Deposit, \$5 each, refunded.

Hospital, Somerset Hills, N. J. Owners taking bids due June 7th, 11 A. M. Architects, Construction Department, 764 Arlington Building, Washington, D. C. Owners, United States Veterans' Bureau, F. T. Hines, Director, Arlington Building, Washington, D. C. Buildings and utilities, roads, walks, heating, lighting, plumbing, metal lath, tile and marble work, skylights, iron work, electric elevators, drainage, excavation, reinforced concrete, hollow tile, brick, cast stone, limestone, metal weather strip, hardware, steel sash stairs, slate, metal built-up roof, architectural terra cotta, carpentry, boiler plant, radial brick chimney, flagpole, dumb waiter, screens, rubber tile and linoleum, concrete water tank and outside sewer, water, steam and electric distribution system. Plans and specifications from owners upon deposit of check or money order for \$100, refunded (made to the order of U. S. Treasurer).

School Building, No. 4, Woodbury, N. J. Owners taking bids due May 9th, 8 P. M. (Daylight Saving Time). Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education, North Broad street, Woodbury, N. J.

Bulkhead, Contract No. 2, Delaware River, between Clinton and Pine streets, Camden, N. J. Owners taking bids due May 10th at noon. Engineer, C. W. Staniford, 50 Church street, New York. Owners, South Jersey Port Commissioners, U. S. Jeffrey, secretary, 106 Market street, Camden, N. J. Concrete wall 1,050 feet long, 38 feet wide bulkhead, wood piles, timber bond. Deposit, \$10, refunded.

Miscellaneous Paving, Camden, N. J. Owners taking bids due May 13th, 9 A. M. (Daylight Saving Time). Owners, Department of Purchase, Charles B. Helm, No. 4 City Hall, Camden, N. J. P. O. 7714—26,200 square yards 7-inch reinforced concrete paving, 2,550 square yards 6-inch plain concrete gutter, 10 lineal feet concrete curb, 10 lineal feet concrete radius curb, 10 lineal feet curb reset,

10,000 cubic yards excavation, 10 cubic yards hard coal cinder. Certified check, 10 per cent. P. O. 7715—4,800 square yards 6-inch concrete paving, 1,600 cubic yards excavation. P. O. 7716—230 lineal feet 20x30-inch brick sewer, 900 lineal feet 16x24-inch brick sewer, 790 lineal feet 16x20-inch brick sewer, 410 lineal feet 10-inch terra cotta sewer, 15 man-holes and sewage appurtenant.

Plant No. 6, Trenton, N. J. Low bidders: Karno-Smith Construction Co., Broad Street Bank Building, Trenton, N. J. Architects, Lockwood, Greene & Co., 1 Pershing Square, New York. Owners, Trenton Pottries Co., North Clinton and Ott streets, Trenton. Brick, reinforced concrete, steel, 5 stories and basement, 63x275 feet, 1 story add., 64x170 feet, 1 story, 46x170 feet, gypsum slag roof, cement floors, rolled steel sash, fire doors, ornamental iron, cinder concrete block, cork insulation, carpentry, mill work, slag roof.

Magazine Bldgs. (2) and Connecting Road, Pedricktown, N. J. Low bidders, Geo. W. Shaner & Son, Palmyra, N. J., \$40,100; Chas. S. Moses, Edgewater Park, N. J., \$40,300. Owner constr. Service Office of Q. M. General Delaware Ordinance Dept, Pedricktown, N. J. Cement work, 1 story 25 feet x 40 feet, metal covered doors, 7600 feet cinder roadway.

Road Work, New Jersey. Low bidders. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J.

Route S4A, Tuckerton to Little Beach, Ocean County, 6.78 miles. Hill Dredging Co., 5601 Atlantic avenue, Atlantic City, N. J., \$848,654.93 (rejected).

Route 29, Sec. 7, Raritan-Chimney Rock, Somerset County, 4.214 miles. Korp & Korp, Phillipsburg, N. J., \$438,670.55.

Route 47, Sec. 2, Millville to Hesstown, Cumberland County, 5.812 miles. F. A. Canuso, 804 South Twelfth street, Philadelphia, \$242,749.06.

New Jersey Contracts Awarded

Fire House, Hamilton Township, N. J. Contract awarded Bennett & James, Hamilton Square, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Nottingham Volunteer Fire Co., care of architects. Brick, 2 stories, 35x60 feet, slag roof, reinforced concrete and hardwood floors, steam heat, electric light, steel sash.

Store, 115 East State street, Trenton, N. J. Contract awarded Harrison & Fisher, 242 Cuyler avenue, Trenton, N. J. Architect, H. G. Aitken, American Mechanics' Building, Trenton, N. J. Owners, Metropolitan Chain Stores, care of architect. Brick, steel, limestone, 2 stories, 40x150 feet, slag roof, maple floors, roof ventilators, iron stairs, fire doors, steel sash, tile, metal lath (heating, plumbing and electric separate).

Cottage (alts.), Ventnor, N. J. Contract awarded Charles D. Thompson, Pleasantville, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owner, Frank Croasdale, 10 North Victoria avenue, Ventnor, N. J. Frame, third story add., 30x30 feet, asbestos shingle roof, pine floors, hot water heat, electric light, tile work.

Residence, \$3,500. 1211 North Thirty-third street, Camden, N. J. Contract awarded John Hawes, 1201 North Thirty-third street, Camden, N. J. Architect, private plans. Owner, Walter Gunn, Camden, N. J., care of builder. Frame, 1 story, 24x36 feet rubberoid roof, electric light.

Stores (6), Boardwalk at Fourth street, Ocean City, N. J. Contract awarded Otis M. Townsend, Ocean City, N. J. Owners, Goetz & Kassab Co., Fourth and Boardwalk, Ocean City, N. J. Stucco finish, 100x46 feet. \$18,000. Permit granted.

Building (add.), \$2,400. 708 Walnut street, Camden, N. J. Contract awarded Justin Zopick, 1187 South Octagon road, Camden, N. J. Owner, Joseph Reinhart, 708 Walnut street, Camden, N. J. Brick, 2 stories add., 17x20 feet, slag roof.

Miscellaneous Construction News

Convent, location withheld. Plans in progress. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owner, name withheld. Brick, stone trim, limestone, 2 and 3 stories, 288x144 feet, tile roof, pine floors, safety treads, incinerators, kitchen equipment, fire tower, tile, marble, steam heat, electric light.

Residence, \$30,000. Cincinnati, Ohio. Architect taking bids due May 10th. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Dr. B. N. Carter, Cincinnati, Ohio. Stone, 2½ stories and basement, 162x26 feet, shingle roof, oak and pine and cement floors, hot water heat, electric light, metal lath, tile work.

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Road Work, Delaware. Owners taking bids due May 21st, at 2 P. M. Owners, State Highway Department, Dover, Del.

Contract 122, Gravelly Hill-Zoar Camp, gravel, 4.81 miles. Clearing, grubbing, excavation, borrow, gravel surface course, Class A concrete, reinforcement, Corr. M. pipe, R. C. pipe, bridges.

Contract 123, Farnhurst-Concrete Roadway, 0.43 mile. Excavation, borrow, broken stone base course, cement concrete pavement, expansion joint, concrete reinforcement, cable guard rail, wood shoulder curb.

Contract 124, Roxana Highway to Bayard-Traffic Bound Roadway, 1.60 miles. Excavation, borrow, broken stone base course, broken slag surface course, Class A concrete, reinforcement, Corr. M. pipe, R. C. pipe. Certified check 10 per cent. Deposit, \$2.

Residence and Garage, Wilmington, Del. Plans about completed ready for bids in one week. Architect, Wm. Woodburn Potter, Real Estate Trust Bldg., Phila. Owner, Walter B. Banker, 2303 Delaware Ave., Wilmington, Del. Stone 2½ stores, 25 feet x 130 feet, slate roof, hardwood floors, tile work, electric light (heating res.).

Miscellaneous Contracts Awarded

May Memorial Library, E. Woodstock, Conn. Contract awarded Damase Boulais, Danielson, Conn. Architect, Seeburger & Rabenold, 1524 Chestnut St., Phila. Owner, May Memorial Library, E. Woodstock, Conn. Brick 1 story 20 feet & 40 feet slate roof, maple floors, electric light.

Samuel Abramson, architect, has opened new offices at 505 Chestnut Street, Philadelphia. Telephone number, Lombard 1255.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 1, 1929. Sealed bids will be opened in this office at 3 p. m., May 24, 1929, for the construction of a retaining wall at the U. S. custom house, Niagara Falls, N. Y. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the supervising architect. JAS. A. WETMORE, Acting Supervising Architect.

The annual spring outing of the Philadelphia Builders' Exchange and Employers' Association will be held at the Manufacturers' Club, Oreland, Pa., on Wednesday, May 15th. At 1 o'clock the Golf Tournament and sports will begin, dinner will be served at 6 o'clock and the entertainment will be at 7.45.

CHINESE ARE OLDTIME BRICK-MAKERS AND MASONS

Long Before the Great Wall of China Was Built Largely of Brick They Had Mastered All the Intricacies of Both Making and Laying Them

China is old and wise and inscrutable, yet, for all that, very childlike. More than any other nation today she needs a guardian. Yet for centuries China has been doing things which some other peoples, scattered here, there and yonder up-

on this terrestrial sphere, will not be doing for centuries to come. Times have been when China was as far ahead of the world at large, from the viewpoint of knowledge and progressiveness, as she is now behind it. The Chinese have forgotten more than many another race knows today or may ever know, and much that it would have profited her greatly to have remembered. Somewhere along the line there has been a peculiar hiatus in the Chinese intelligence. Yet she muddles through.

Clayworking in its various phases has long been a Chinese art. How long it is is impossible to say. More than 3,000 years ago the Chinese were making porcelains that today are priceless and which have never been surpassed in their high quality and rare beauty. It will be worth your while, the next time you stop at the art museum, to examine the specimens of the Ming dynasty (1368 B. C.), if they are fortunate in having any. Some of them are worth their weight in gold. China isn't making that grade of ware today. The art seems to have been lost.

Naturally it follows that long before they attained such a mastery of porcelain-making they had solved the infinitely more simple problem of brick manufacture. And how well they made brick and how they held them in esteem is attested by the millions of huge burned brick that are still in the great Chinese wall, built more than 2,000 years ago for defense against the marauding Mongol and Tartar hordes which were over-running the country.

In that tremendous work the Emperor Che-Hoang-ti imposed upon each province in his domain the task of making a certain allotted number of brick and delivering them at some point along the route where thousands of masons were ready to put them into the wall. History records that the wall was begun in the year 214 B. C. and not completed for half a century.

In every Chinese city of importance brick has always played an important part in the construction work. Brick walls were built around them for defensive purposes just as brick houses were built inside them. Brick were used in erecting the pagodas which dot the land. They went into the walls of the royal palaces as well as into the homes of the common people, only there was a clearly specified difference in quality.

The brick of which the Emperor's Palace in Peking was built were the acme of the brickmaker's art. Golden in color, and glazed to the highest degree, they were virtually terra cotta. The golden-colored brick were for the royal use alone, and went into the government buildings and palaces only. It meant the headsman for any but the Imperial families to use

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them, and this distinction endured for centuries.

Dark blue and purple tiles, peculiarly rich in their color tones, were restricted to buildings used for religious purposes. These are found in the myriad pagodas and temples and often are strikingly beautiful. They were not allowed in buildings erected by the common people nor for the homes of even the rich. Green glazed tile were made for and used as the distinguishing mark of the homes of the wealthier classes while the common people used in constructing their houses a soft-burned rough brick wholly without glazing.

Long ago the Chinese mastered the secrets of terra cotta manufacture and it was made in a wide variety of intricate patterns of all colors. It was used generally for ornamental purposes, around doors and windows and for openings in the walls about the gardens for which the Chinese have long been famous. With a complete mastery of porcelain manufacture the making of brick, tile and terra cotta was an easy task for the Chinese even centuries ago.

Today the Chinese use a variety of methods of brick manufacture and probably are not as expert as they were four or five hundred years ago. Certainly they do not produce the high quality of material they did in those far-gone days. In some sections they still make a sun-dried brick of mud and crushed rice straw which is used for the homes of the very poor classes. These are even more massive than the giant bricks in the great wall, being 12 inches square and 18 inches long. They are laid up and plastered on the outside.

Fire-burned brick are usually 2x5x10 inches and range in colors from red to black, depending upon the quality and ingredients of the clay. Mostly they are hand made, manual labor being cheaper in China today than machinery. The best quality Chinese brick at present is made near Shanghai. It is hard burned and resembles the English brick more than any American product, being larger in all dimensions. A French type of tile is also

made in that locality being red or brown in color and well burned.

In their construction the Chinese make free and understanding use of all clay products. Hollow walls are to them an old story. They have built them for centuries and build them to day. The Chinese method is to lay alternate courses flatly and on edge. The runners, which are laid on edge are generally either 2x5x10 inches, or 2x4x8 inches, and the headers 1x5x10 inches. These headers, which lie flat in the wall, tie the two veneers of the wall together with exceptional firmness. Either size of brick works out to advantage and the walls vary in appearance according to which is used.

In substituting terra cotta tracery and patternwork for ironwork in porch railings and for stairways the Chinese have developed a singular adeptness of manufacture. The terra cotta is burned in glazed colors, made in units and is locked together with either dowels or lime mortar. Usually the units are set into the brickwork further to hold it firmly in place. The effect is oddly pleasing and the cost about the same.

Chinese architectural ideas vary radically from our own. Apartment houses, for instance, instead of having basements with storage rooms and laundries therein, provide these on the roofs. And when one considers the contrast, with light and cleanliness and lack of rats and roaches and all else that goes with too many American apartment basements, the Chinese seem to have all the best of the argument.

Many schools and public buildings have unplastered brick interior walls, the Chinese holding that plastered walls absorb dampness and are therefore undesirable from both a sanitary and health viewpoint.

Concrete is coming into rather extensive use in Chinese construction, more for interior reinforced columns and floors than for exterior walls. The Chinese has been too long wedded to brickwork to surrender easily this preference. Occasionally there is a use of stone for trim about windows and doors, but more often

this is of terra cotta. Tile predominates for roofs in the better construction.

Some of the best remaining examples of ancient Chinese masonry are found in the old temples and pagodas. This frequently compares well with that of the royal palaces.

Generally pagodas are solid with the exception of the interior stairways. Climbing to the top of one of them has a religious significance akin to the Moslem's pilgrimage to Mecca. One mounts the interior stairway to come out on the cornice of the next story which he must circle on the outside until he finds the opening to the next stairway. This performance must be repeated until the top is reached. If you manage to do the trick and come off alive you are supposed to have good luck forever afterwards.

The minaret on top of the pagoda is usually supposed to house some sacred relics of Buddha, but as it likewise is solidly built, one has to take this on trust. The tile roofs are generally laid in mud and in this instance the foliage about the top is growth from seeds which have been carried there by birds. It is mostly grasses and small fruiting shrubs. The same conditions are noticeable on several of the lower cornices. This particular pagoda is centuries old. In it the brickwork is little changed in bond from what is in general use today.

Most of the modern Chinese buildings, the missions, schools, dormitories, and residential structures for the attaches thereof, have been markedly influenced by the architecture of America and Europe. Some of them might easily be mistaken for structures from either continent. Chinese architects and builders, in the larger cities particularly, are slowly breaking away from the methods of their ancestors. More and more their designs are taking on a Western atmosphere, still, in every instance, there remains something of the unmistakable Chinese touch.—*Building Economy*.

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BUILD AGAINST FIRE

By W. E. MALLALIEU, *General Manager,
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Engineers who have made an exhaustive study of the problem have a positive answer to the question, "How can we curtail America's stupendous fire waste?" They say with distinct emphasis, "The loss can be reduced *if we will build to resist fire.*"

The initial step in building to resist fire is to have the plans drawn by an architect who understands the principles of fire prevention. Of necessity the structure must be erected in accordance with the plans and specifications and it follows that if the plans are right the finished building will be fire-safe. *Many a building has been saved from fire while the plans were on the drafting board!* The modern structures we now see in our cities are the result of many improvements and safeguards in the building industry.

In these large modern structures it is well to build so that there will be no great open areas through which fire can sweep unretarded. So far as possible fire-resistive material should be used throughout. In order to be fire-safe this type of building must be able to resist fire both from within and from without. One of the elementary rules is to build so that the flames will be confined to the place of

origin until the fire department can arrive and extinguish the blaze. It is therefore imperative that stairways and elevator shafts be enclosed and fire doors installed to separate the various sections of the structure. There should be no way for fire to spread from one floor to another. Often a building that would resist fire originating within its own walls would be an easy prey to fire starting in an adjoining structure. Many so-called "fireproof" buildings are exposed to danger by adjacent structures. In order to resist fire from the outside, windows may be equipped with wired glass in metal frames. Another important element making for fire-safety is the installation of a complete equipment of extinguishing devices such as automatic sprinklers, standpipes and fire extinguishers.

A larger percentage of combustible material generally enters into the construction of dwellings than in the type of building just discussed. However, if due consideration is given to fire-resistive construction, even a dwelling can be made relatively fire-safe. A fire in the average American home spreads very rapidly and it is vastly important to build so that the flames may be confined to the place of origin. Fire-stops which will retard the spread of fire from one floor to another are exceedingly important. A fire-resistive roof also aids materially in making

dwellings fire-safe. When a heating plant is installed, due care should be taken to protect all combustible material from contact with parts of the equipment that will become hot, and all electrical work should be done in accordance with the electrical code. Chimneys also cause a large amount of fire waste annually, which could be prevented if they were built in accordance with standard specifications.

If one considers that the loss from fire ever year is a half billion dollars the importance of building to resist fire will be recognized, especially when it is realized that material destroyed in this way can not be replaced and constitutes a severe drain upon the economic sources of the nation.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

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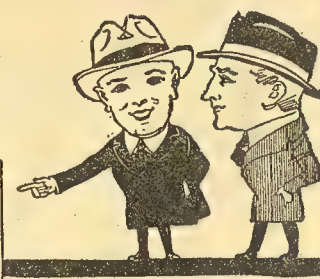
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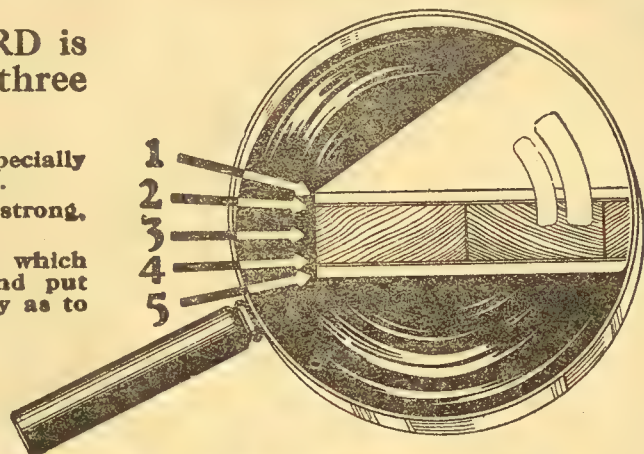
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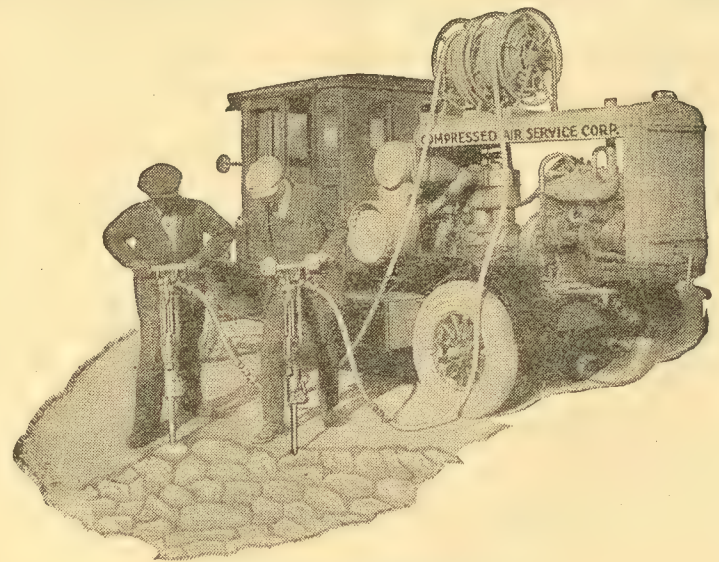
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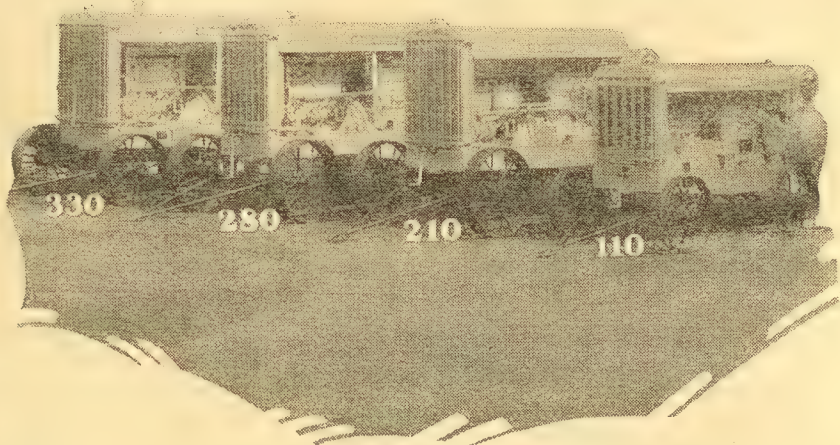
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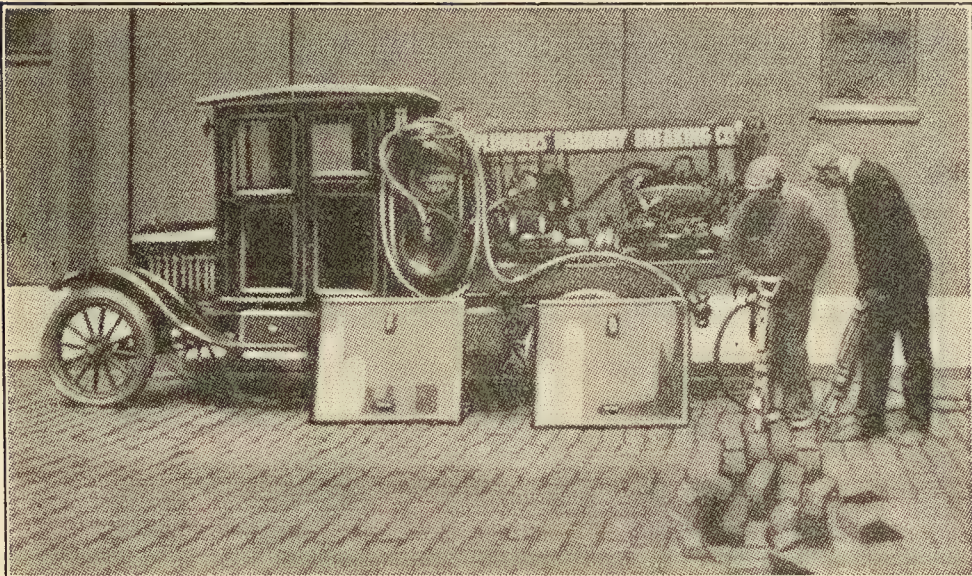
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Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 20

PHILADELPHIA
May 15, 1929

BUILDERS' GUIDE

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BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store Building, 4141-49 Frankford avenue, Philadelphia. Architect, Edgar A. Wightman, Bankers' Trust Building, Philadelphia. Owner, Sidney K. Allman, Finance Building, Philadelphia. Plans in progress.

Office and Garage Building, 1616-26 Walnut street, Philadelphia. Plans in progress. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owners, Monarch Realty Co., R. Heyman and Joseph J. Greenberg, Fidelity-Philadelphia Building, Philadelphia. 23 stories and basement, 120x150 feet.

Apartment House, 5629-31 Woodland avenue, Philadelphia. Revised plans in progress. Ready for bids in 10 days. Architect, private plans. Owners, National Engineering Co., 700 Chestnut street, Philadelphia.

Residences (30), Ripka avenue, North of Leverington street, Roxborough, Philadelphia. Work contemplated. Owner will build and will be ready for sub-bids on first 15 in one month. Architect, private plans. Owner, Joseph McGlory, 2074 North Sixty-second street, and on site. Brick, 2 stories, 15x36 feet, slag roof, hardwood floors, hot water heat, electric light, tile work.

Factory, Wakefield street, Germantown, Philadelphia. Owner taking sub-bids due as soon as possible. Architect, Franklin D. Edmunds, Real Estate Trust Building, Philadelphia. Owner, Frank A. Cruice, Twenty-first and Ridge avenue, Philadelphia. Brick, steel, 2 stories and basement, 80x128 feet, slag roof, concrete floors, hot water heat, electric light, fire doors, rolled steel sash.

Residences (6), Holmesburg, Pa. Owner will build and will take sub-bids in one month. Owner, Fred J. Blankenhorn, 3049 Rowland street, Philadelphia. Architect, private plans. Brick, 2 stories, 25x38 feet, slag roof, hardwood floors, hot water heat, electric light, tile work.

Bank and Office Building, 14-20 West Cheltenham avenue, Philadelphia. Ready for bids in one week. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Bank of Philadelphia & Trust Co., Leon Lewis, Broad and Diamond, Phila. Brick, steel, concrete, terra cotto, size of lot 60x100 feet.

Service Station, \$12,335. Southeast Corner Germantown and Pike street, Philadelphia. Owners will build. Work to start about May 13th. Architect, private plans. Owners, Pure Oil Co., 1210 Widener Building, Philadelphia. Brick, stucco, 1 story, 11x18 feet, tile roof, electric light, cement.

Apartment Houses (12), Sixty-ninth street, South of Chestnut street, Philadelphia. Owner taking sub-bids at 39 South Sixty-ninth street, Philadelphia. Architects, R. N. Dippy and N. Haupt, 1601 Walnut street, Philadelphia. Owner, name withheld. Brick, steel, stone, 2 stories, 24x75 feet, slag roof, hardwood and linoleum floors, hot water heat, electric light, tile work, iron work. 120 apartments.

Apartment Houses (10), Sixty-ninth street, South of Chestnut street. Owner taking sub-bids at 39 South Sixty-ninth street, Philadelphia. Architects, R. N. Dippy and L. Haupt, 1601 Walnut street, Philadelphia. Owner,

James J. Andrien, Upper Darby, Pa. Brick, steel, stone, 2 stories, 24x75 feet, slag roof, hardwood, hot water, linoleum, tile work, iron work, 80 apartments.

Synagogue, Southwest Corner Fifty-second and Columbia avenue, Philadelphia. Architect taking new bids due May 17th. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Shaari Zedek Congregation, care of A. D. Caesar, Esq., 1321 Arch street, Philadelphia.

Residence (alts. to Apartments), 225 West Penn street, Philadelphia. Architect taking bids due May 16th. Architect, Clarence Caspary, 1701 Walnut street, Phila. Owners, Penn-Wayne Realty Co., care of architect. Steam heat, electric work, tile work, linoleum floors, metal lath, composition floors, plastering, iron work, carpentry, mill work.

Store (alts.), 2113 West Columbia avenue, Philadelphia. Architect taking bids. Architect, Clarence L. Caspary, 1701 Walnut street, Philadelphia. Owner, Philip Denken, on premises. New front, tile work, copper bars, plate glass, Vitrolite.

Fraternity House (alts.), 3537 Locust street, Philadelphia. Architect taking bids due May 18th. Architect, Albert E. Westover, 2209 Chestnut street, Philadelphia. Owners, Kappa Alpha Lodge, University of Pennsylvania, on premises. Electric work, wood work, hardware, painting, limestone.

Motor Generator in United States Mint, Seventeenth and Spring Garden streets, Philadelphia. Owners taking bids due May 23rd, 3 P. M. Owners, United States Government,

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Custodian of the Mint, on premises. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Plans may be secured from owners.

Stores and Residences (10), \$71,000. East side Frankford avenue, North of Hellerman street, Philadelphia. Permit issued. Architect, private plans. Owners, North Philadelphia Development Co., Fifth and Wyoming avenue, Philadelphia. Brick, 2 stories, 16x50 feet, 13x10 feet, hot water heat, electric light, slag roofing, hardwood and pine floors.

Residence, \$3,000. 6004 Colgate street, Philadelphia. Permit issued. Architect, private plans. Owner, Charles F. Bartels, 6005 Rising Sun avenue, Philadelphia. Brick, 2 stories, 17x29 feet, 15x15 feet, slag roof, pine floors, hot water heat, electric light.

Service Station, \$3,000. Southwest Corner Twenty-second and Bainbridge streets, Philadelphia. Permit issued. Architect, private plans. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, 26x34 feet, slag roof, cement floors.

Residences (6), \$30,000. West side Loretta avenue, South of Napfle street, Philadelphia. Permit issued. Architect, private plans. Owners, Castor Highland Development Co., Castor and Highland avenue, Philadelphia. Brick, 2 stories, 16x25 feet, 18x24 feet, hot water heat, electric light, hardwood and pine floors, slag roof.

Shop, \$2,250. 2825 East Indiana avenue, Philadelphia. Permit issued. Architect, private plans. Owner, William B. Scull, Jr., 3033 Salmon street, Philadelphia. Brick, 1 story, 20x66 feet, electric lighting.

Shop (add.), \$7,000. 810-12-14 Reed street, Philadelphia. Permit issued. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, H. Cohen, 810 Reed street, Philadelphia. Brick, 1 story add., 45x100 feet, slag roof, electric light.

Residence, North side Kohl street, West of Hoff's street, Philadelphia. Permit issued. Architect, private plans. Owner, William M. Foster, 1918 Murray street, Philadelphia. Frame, 2 stories, 24x28 feet, hot water heat, electric light, pine floors.

Garage, \$2,000. Northeast Corner Forty-fourth and Parrish streets, Philadelphia. Permit issued. Owner, H. J. McGarry, 4326 Lancaster avenue, Philadelphia. Brick, 1 story, 28x56 feet, slag roof, cement floors, electric work.

Residences (26), \$182,000. 901-53 Dorset street, Philadelphia. Permit issued. Architect, private plans. Owner, John Uber, Stenton and Mt. Pleasant avenues, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Apartment House, \$17,000. Southeast Corner Thirty-sixth and Spring Garden streets, Philadelphia. Permit issued. Owner, A. Leibovitz, 1202 North American Building, Philadelphia. Brick, 3 stories, 25x64 feet, 25x35 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Garage, \$3,500. 1930 North Twelfth street, Philadelphia. Permit issued. Owner, Charles Karbeck, 1930 North Twelfth street, Philadelphia. Brick, 1 story, 46x90 feet, slag roof, cement floors, electric work.

Bungalows (2), \$3,000 total. South side Suffolk street, West of Eighty-fourth street, Philadelphia. Permit issued. Architect, private plans. Owner, Louis Lasemsky, 8229 Eastwick avenue, Philadelphia. Brick, 1 story, 16x44 feet, hot water heat, electric light.

Section for Stadium, Overbrook, Pa. Low bidder, James M. Doyle, 3016 Chestnut street, Philadelphia. Architect, Sigmund J. Laschenski, Harrison Building, Philadelphia. Owners, St. Joseph's College, Rev. W. T. Fallon, S. J., on premises.

Schools (2), Senior High, Front and Duncannon street; Elementary, Umbria, Wright and Hermitage. Low bidders. Architect, I. T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Senior High—McCloskey Co., 1630 Thompson street, Philadelphia, \$1,859,359; Nelson-Pedley Construction Co., 1510 Chestnut street, Philadelphia, \$1,886,000; heating, McClintock & Co., 5608 Race street, Philadelphia, \$248,974; plumbing, S. Faith & Co., 2427 Pennsylvania avenue, Philadelphia, \$116,477; ventilating, W. P. Cameron Co., 4830 North Mascher street, Philadelphia, \$12,626; electric, W. V. Pangborne Co., 1927 West Montgomery avenue, Philadelphia, \$158,650. Elementary—Jones-Redditt Co., McClatchy Building, Upper Darby, \$398,340; heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, \$40,994; plumbing, Jacob Brugger, 2124 East Cumberland street, Philadelphia, \$17,479; ventilating, W. P. Cameron Engineering Co., 4830 North Mascher street, Philadelphia, \$1,387; electric, O. W. Lynch, 5743 Ogontz avenue, Philadelphia, \$14,000. Specification No. 105, McClintock & Sons, 1937 Ridge avenue, Philadelphia, \$7,810. Specification No. 106, McClintock & Sons, 1937 Ridge avenue, Philadelphia, \$7,592. Specification No. 118, Trion Construction Co., 212 North Sixty-fifth street, Philadelphia, \$1,947.

Alterations to City Hall Annex, Southeast Corner Juniper and Filbert streets, Philadelphia. Low bidders: McCormick-Lenham, Fortieth and Chestnut streets, \$25,063; I. S. Grindrod, 10 South Eighteenth street, Philadelphia, \$26,975; plumbing, L. J. Sommer, 2436 Brown street, Philadelphia, \$1,442. Own-

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ers, Department of Public Works, Bureau of City Property, City Hall. City architect, W. S. Covell, City Hall Annex, Philadelphia.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Department of Public Works, Bureau of Engineers, City Hall, Philadelphia. Fortieth street, Market to Ludlow, J. Joseph McHugh, 1617 Race street, Philadelphia, \$4,432.50. Fraley, Eadom to James, A. Curado, 5920 Magnolia street, \$1,742.65. McKean Parkway, Twenty-fifth to Twenty-eighth, Donato Delise, 4842 North Leithgow street, \$11,371.50. Mercer, Tioga to Summit, North, A. Curado, 5920 Magnolia street, \$2,139. Sansom, Thirty-ninth to Fortieth, Trio Construction Co., 212 North Sixty-fifth street, Philadelphia, \$7,334.75. Sixty-eighth avenue, Wyn-cote to Ogontz, Leva Brothers, 104 West Gale street, \$2,152.20. Tulpehocken, Ogontz to Woolston, Leva Brothers, 104 West Gale street, Philadelphia, \$22,038.75. Fifty-sixth street, Schuylkill River, 193 feet West of bulkhead line, Joseph & Robert Lombardi, Lincoln Building, Philadelphia, \$34,560. Montour, Tyson, Princeton, Tabor, etc., J. Pasquale & Pinciotto, 4103 East Roosevelt Boulevard, \$38,624.04. Sewage Disposal Project, Tacony Creek, James T. McDonald, 2313 South Front street, Philadelphia, \$6,291.75. Hunting Park Avenue Bridge, over Philadelphia & Bustleton Railroad, Mundy Paving & Construction Co., 226 South Warnock street, \$62,700.

Miscellaneous Work. Low bidders. Owners, Department of Public Work, Bureau of Highways, Philadelphia. Annsbury, G to H street, M. Masse, 3936 North Reese street, \$602.02. Brouse, Ryan, Loney, Brocklehurst, etc., M. B. Feeney, 106 Kalos street, Philadelphia, \$1,511.28. Kerper, Summerdale to Frontenac, Marino Masse, 3936 North Reese street, \$959.39. Painting, Eighty-fourth Street Bridge, A. E. Singelis, 5630 Litchfield street, \$1,095.

Sales and Service Building, 248-54 North 22nd street, to Crosby and Summer streets, Philadelphia. Architect will be ready for bids within one week. Architect, E. A. Stopper, 10 South 18th street, Philadelphia. Owner, Twenty-second Street Realty Co., care Architect. Brick, steel, 2 stories, L shape, 64x122 feet, concrete roof and floors, chute, gypsum built-up roof, linoleum, elevator, metal and glass partitions, plate glass, metal bars, steam heat, electric light, plumbing, steel sash, overhead and rolling steel doors.

Miscellaneous Work, Philadelphia. Owner taking bids due May 22nd, 11 A. M. (S. T.) Owner, Department of Public Works, Bureau of Engineering, 216 City Hall, Philadelphia. B. Main sewers Hartwell avenue, Bradford to Glenside station, etc. C. Sewage Disposal

Project, restoration of paving, Wissinoming avenue, Upper Frankford Creek, low level collecting sewer. D. Bridges, grading, paving, etc., Rhawn street approaches. E. Contract No. 5, Pennsylvania Terminal improvements. Improvements of 20th, 21st, 22nd and 23rd streets between Market and Arch streets, Philadelphia. Certified check 5%.

Supplies, Philadelphia. Owner, Department of Supply, 302 City Hall, Phila. Owner taking bids May 16th at noon. Asphalt mixtures.

Apartment House, \$50,000, 6701-03-05 Ogontz avenue, Philadelphia. Permit issued. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, Geo. A. Nahm, 2736 Girard avenue, Philadelphia. Brick, 3 stories, 60x10e feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Apartment House, \$50,000, 6707-09-11 Ogontz avenue, Philadelphia. Permit issued. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, George A. Nahm, 2736 Girard avenue, Philadelphia. Brick, 3 stories, 60x67 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Factory, Cresson and Bowman streets, East Falls, Philadelphia. Architect taking bids due May 16th. Architect, H. B. Tobias, Otis Building, Philadelphia. Owners, Falls Plush Mills, on premises. Brick, 1 story, irregular size, concrete, stone work, unit heat, oil burner, plumbing, sprinkler system, iron work, finished floors, painting, glazing, waterproofing, steel sash, miscellaneous iron work, Barrett Special roof, sheet metal, millwork, fire doors, toilet partitions, reinforcing steel.

Day & Zimmerman, Engineers, 112 North Broad street, Philadelphia, taking bids due May 18th, welded concrete reinforced bar mats or welded steel fabric delivered to Gratersford, Pa., due on May 16, cast iron radiators, steel plates, angles, bars and channels.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 7, 1929. Sealed proposals will be opened in this office at 3 p. m., May 23, 1929, for furnishing all labor and material required for furnishing and installing motor generator, etc., in the U. S. mint at Philadelphia, Pa. Specifications may be obtained from the custodian at the U. S. mint at Philadelphia, Pa., or at this office in the discretion of the supervising architect. JAS. A. WETMORE, Acting Supervising Architect.

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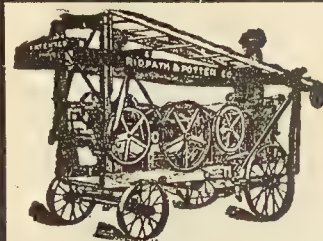
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Laboratory Building, Twenty-ninth and Gray's Ferry road, Philadelphia. Contract awarded P. Haibach Contracting Co., 1261 North Twenty-sixth street. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Henry Bower Chemical Manufacturing Co., on premises. Brick, steel, 2 stories and basement, 42x28 feet, excavation, concrete and cement work, cork insulation, waterproofing, metal partition, iron stairs, kalamein doors, carpentry and mill work, caulking, cellized floors, hardware, marble and tile work, painting, glazing, limestone, granite, Carey built-up roof, sheet metal windows.

Cottages, 1 and 2 (alts. and add.), 2201 Belmont avenue, Philadelphia. Contract awarded David N. Hunt, Green and Cheltenham avenue, Philadelphia. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Home for Training in Speech of Deaf Children, Mrs. W. P. Shoemaker, president, on premises. Bond, carpentry, mill work, plastering, painting, glazing, plumbing, hardware, electric work, slag roof.

Office Building, South Philadelphia Terminal Yards, Philadelphia. Contract awarded Sinclair & Grigg, 1518 Walnut street, Philadelphia. Architect, C. W. Thorn, 15 North Thirty-second street, Philadelphia. Owners, Pennsylvania Railroad, Fifteenth and Market streets, Philadelphia. Brick, steel, 2 stories and basement, 27x48 feet, slag roof, pine and cement floors.

Church and Sunday School, Northwest Corner Walnut and Green streets, Germantown, Philadelphia. Contract awarded Stofflet & Tilotson, Wesley Building, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Reformed Episcopal Church of the Atonement, Rev. H. P. Smith on premises. Stone, 2 stories and basement, 74x61 feet, wing 66x60 feet, demolition, iron work, excavation, concrete and cement work, brick work, structural steel, plastering, metal lath, carpentry and mill work, painting, glazing, plumbing, marble and tile work, damp-proofing, kalamein doors, metal windows, wood tile floors, composition and rubberstone floors, hardware, flagstone, limestone, granite, area gratings, slate roof.

Residence and Garage, \$50,000. Bell's Mill road, Chestnut Hill, Pa. Contract awarded Samuel Harting Co., 20 East Johnson street, Philadelphia, who is taking sub-bids. Architect, John W. Keyes, Otis Building, Philadelphia. Owner, Mrs. Charles T. Cresswell, 1925 Panama street, Philadelphia. Stone, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work.

Alterations, 1420 Walnut street, Philadelphia. Contract awarded Morlock-Davis Co., Fifteenth and Race streets, Philadelphia. Architect, R. B. Bencker, 1601 Chestnut street, Philadelphia. Owners, Tradesmen's National Bank, 1420 Walnut street, Philadelphia. Iron work, marble, terrazzo models (\$500), carpentry and mill work, Zenithern floors.

Residence and Garage, Wakeling and Large streets, Philadelphia. Contract awarded W. F. Lotz, Frankford and Oxford avenues, Philadelphia. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, Mrs. Samuel McCaulley, Frankford and Lehigh avenues, Philadelphia. Brick, 2½ stories and basement, 42x27 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work.

Club House, Ontario street, between Rand and Argyle streets, Philadelphia. Contract awarded James Clearkin, 1048 East Pratt street, Philadelphia. Architects, Gleeson & Mulrooney, 250 South Broad street, Philadelphia. Owners, Ascension Club, on premises. Brick, steel, 1 story and basement, 85x67 feet, slag roof, cement and composition floors, electric light, metal lath.

Banking Building, 1423-25 Walnut street, Philadelphia. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia. Ready for sub-bids in 10 days. Architects, Thomas Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Newburger, Henderson & Loeb, 1512 Walnut street, Philadelphia. Brick, limestone, steel, 3 stories and basement, 38x100 feet, slag roof, cement floors. (Note architect.)

Gymnasium Building, Twentieth and Olney avenue, Philadelphia. Contract awarded John McShain, Inc., 1610 North street, Philadelphia. Architects, Hoffman-Henon, Finance

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Building, Philadelphia. Owners, La Salle College, Bro. E. Alfred, Broad and Stiles streets, Philadelphia. Brick, steel, 4 stories and basement.

Residence, \$3,000. 4548 Bermuda street, Philadelphia. Contract awarded A. Szymanski, 4243 East Thompson street, Philadelphia. Owner, Jan Kowalezyk, on premises. Brick, 2 stories, 14x46 feet, hot water heat, electric work, pine floors.

Residence (add.), \$2,000. 2832 North Reese street, Philadelphia. Contract awarded Samuel Popyk, 237 East Allen street, Philadelphia. Owner, Martin Kornechick, 909 Day street, Philadelphia. Brick, 2 stories add., 9x13 feet.

Apartment House (alts.), \$6,000. 5108 Chestnut street, Philadelphia. Contract awarded E. J. Kreitzburg, 1333 Arch street, Philadelphia. Architect, private plans. Owners, Salvation Army, 701 North Broad street, Philadelphia. General alterations.

Residence and Store (alts.), \$3,000. 3132 Kensington avenue, Philadelphia. Contract awarded T. C. Stockholm, 120 North Camac street, Philadelphia. Architect, private plans. Owners, Semser & Semser, on premises. General alterations.

Store, 805-07 East Cheltenham avenue, Philadelphia, \$3,500. Contract awarded C. M. Greenwood, 253 East Penn street, Philadelphia. Architect, private plans. Owner, James F. Friel, 702 Liberty Trust Building, Philadelphia. Brick, 1 story, 32x75 feet, pine floors, electric light.

Residence (add. and alts.) to Synagogue, \$2,500. Northeast Corner Fifty-ninth and Cedar avenue, Philadelphia. Contract awarded Krowitz & Freedman, 823 North Marshall street. Architect, private plans. Owner, N. Coppersmith, president, 5930 Larchwood avenue, Philadelphia. Brick, 1 story add., 12x6 feet, general alterations.

Residence (add.), \$2,500. 703 East Cheltenham avenue, Philadelphia. Contract awarded W. J. Grubler Co., 219 High street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, R. M. Guekes, on premises. Stone, second story add., 11x24 feet.

Residence, \$13,400. South side Grant street, West of Frankford avenue, Philadelphia. Contract awarded Clarence E. Campbell, 6419 Bingham street, Philadelphia. Architect, Edwin A. Yeo, 1520 Locust street, Philadelphia. Owner, George W. Parker, 114 La Rue street, Philadelphia. Brick, 1 and 2 stories, 16 feet x irregular, hardwood and pine floors, electric light.

Residence, South side Burholme, East of Borbeck street, Philadelphia. Contract awarded Herman Mattson, 135 Sylvania avenue, Rockledge, Pa., \$13,000. Owner, C. R. Kroekel, 628 Arthur street, Philadelphia. Stone, 2 stories, 37x27 feet, hot water heat, electric light.

Miscellaneous Work. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Crispin street, Decatur to Rhawn, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$3,760.60. Seventy-eighth street, Island to Madison, F. A. Canuso & Son, 804 South Twelfth street, \$5,410.65. Repairs to intersection, Broad and Morris streets, Eastern Paving Co., 1600 Arch street, Philadelphia, \$2,179.85. Reinforced trusses and steel, Walnut Street Bridge, Satter Brothers Co., 1015 Chestnut street, Philadelphia, \$7,450. Furnish and erect platform scale for weighing trucks, Tri-State Engineering & Construction Co., Finance Building, Philadelphia, \$11,042.

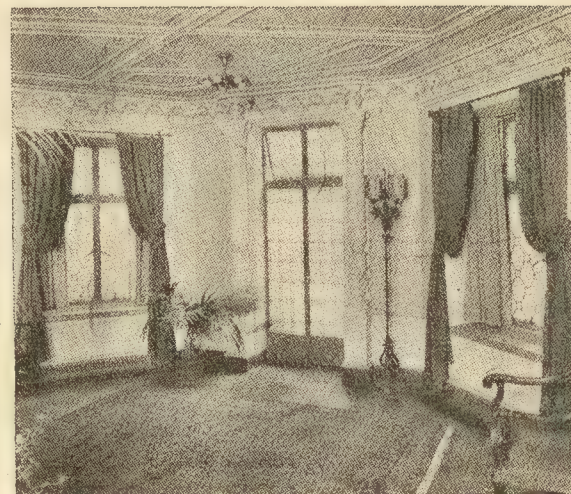
Residence, South side Halstead street, east of Chandler street, Philadelphia. Contract awarded George Potts, 3353 North Phillips street, Philadelphia. Architect, private plans. Owner, Otto Baumann, 323 West Wingohocking street, Philadelphia. Frame, 2 stories, 20x26 feet, hot water heat, electric light.

Residence and Garage, Crane avenue, Torresdale, Pa. Contract awarded C. C. Campbell, 6419 Bingham avenue, Philadelphia. Architect, Edwin A. Yeo, 1520 Locust street, Philadelphia. Owner, Geo. W. Parker, care Architect. Brick, stone, 1½ stories and basement, 40x50 feet, wing 18x15 feet, 22x15 feet, hot water heat, bond, excavation, cut stone, steel and iron work, steel sash, slag and slate roof, metal lath plastering, oak and pine floors, cement tile work, painting, glazing, hardware.

Apartment House, Oxford avenue between Dyre and Wakeling avenues, Philadelphia. Contract awarded Roxlano Realty Co., 812 Crozer Building, Philadelphia, who will take sub-bids. Architect, Charles S. Schaef, 11 South 16th street, Philadelphia. Owner, Belle Manor Corp., care Williard Swaab, 812 Crozer Building, Philadelphia. Brick, steel, 4 stories, 135x220 feet irregular, 56 apartments, Spanish tile slag roof, 3 elevators, hardware, hardwood floors, vapor heat, electric light, tile work, incinerators.

Manufacturing Building, Indiana avenue and Eighteenth street, Philadelphia. Contract awarded J. L. Fawley, 2121 Walnut street, Philadelphia. Architect, Julian Simson, Broad and Girard avenue, Philadelphia. Owner, Chas. Kahn, Provident Trust Building,

Philadelphia. Brick, steel, cast stone, 2 stories and basement, 122x61 feet, demolition, excavation, fireproofing, bond, gypsum slag roof decks, steel sash, steel tube doors, magnesite floors, linoleum, rolled steel skylights, plumbing, metal partitions, elevators, Carey special roof (heating sprinkler reserved).



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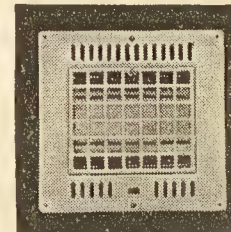
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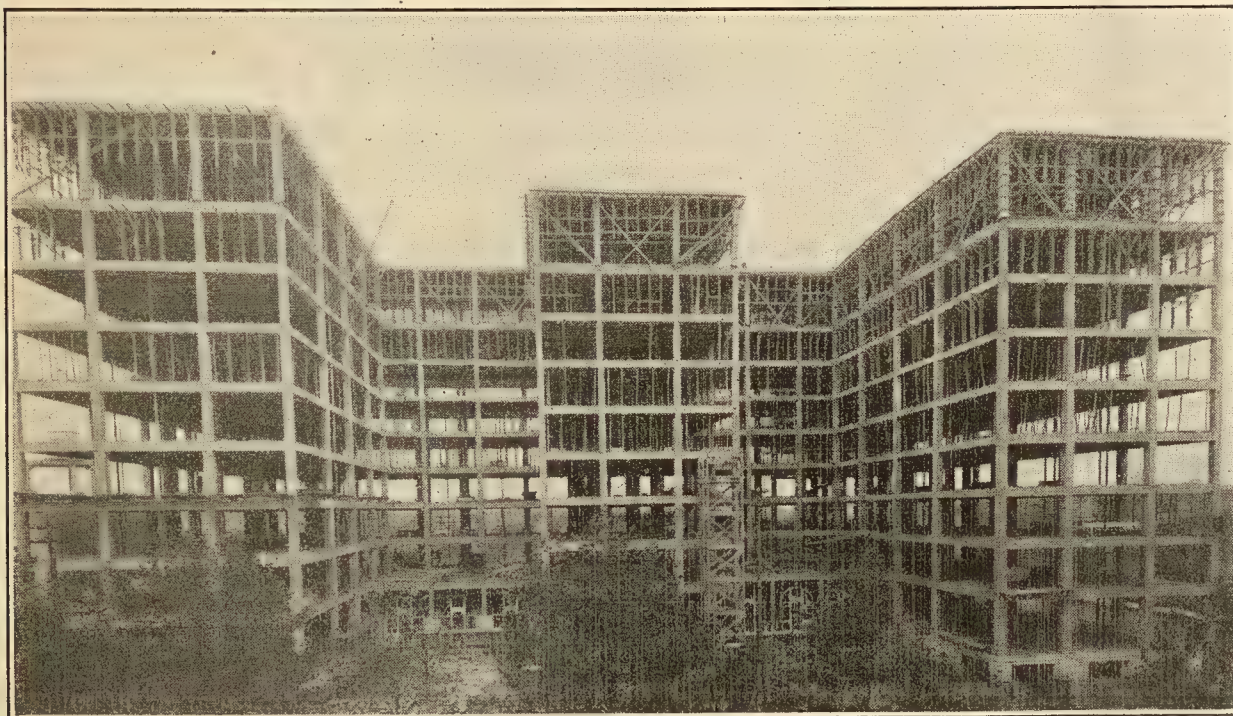
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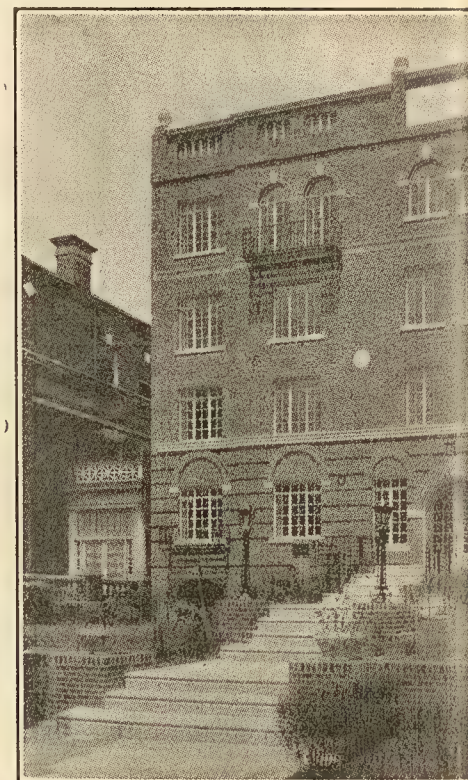
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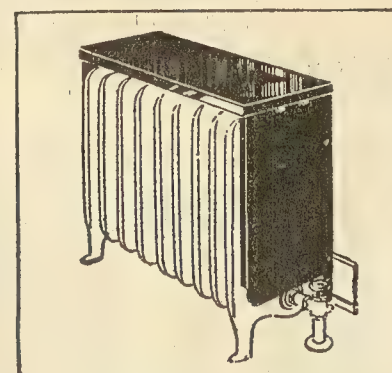
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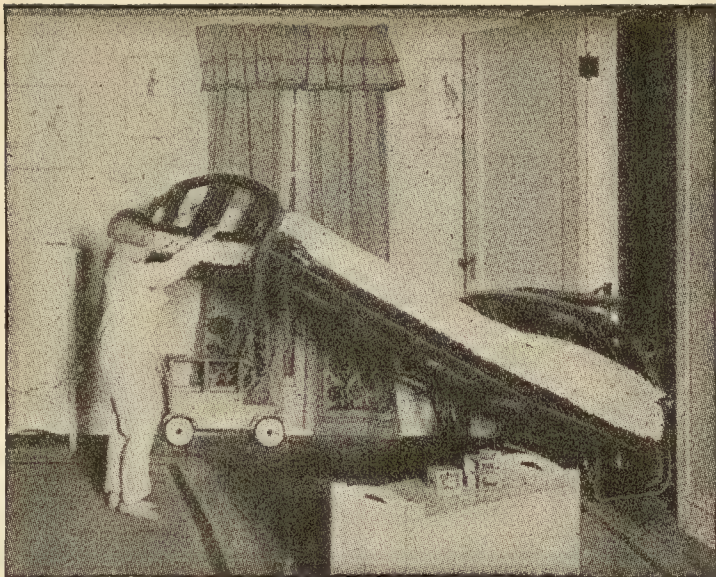
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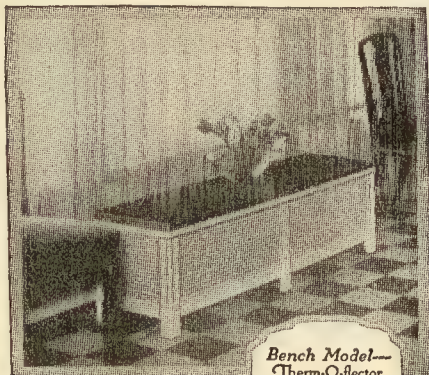
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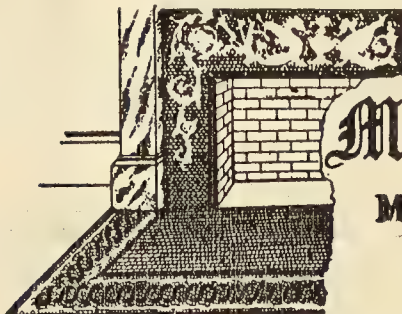
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Sun Parlor (add.), 7216 North 12th street, Philadelphia. Contract awarded M. Oberholtzer, Glenside, Pa. Architect, Philip S. Tyre, 114 South 15th street, Philadelphia. Owner, M. E. Brigham, on premises. Stone work, brick work, cut stone, concrete and cement work, carpentry and mill work, iron work, electric work, screens, painting, plastering, glazing, slag roof, one story, 25x15 feet.

Pennsylvania Construction News

Sanitorium (add.), Eaglesville, Pa. Plans in progress. Architects, Simon & Simon, Fidelity-Philadelphia Building, Philadelphia. Owners, Eaglesville Sanitarium, Miss M. A. Clark, superintendent, Eaglesville, Pa. Brick, steel, concrete, 3 stories.

Fire House, North Wyoming street, Hazleton, Pa. Plans in progress. Architect, William J. Crichton, American Bank Building, Hazleton, Pa. Owners, City of Hazleton, Ira Mann, City Clerk, City Hall, Hazleton, Pa.

Church, Lancaster, Pa. Architects selected. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Mark's Lutheran Church, Rev. M. J. Hoepper, 628 East End avenue, Lancaster, Pa.

High School, Marysville, Pa. Architects selected. Architects, E. J. Minick and S. H. Jamison, 23 North Third street, Harrisburg, Pa. Owners, Marysville School Board, care of architect. Semi-fireproof.

Residence and Garage, Ridley Park, Pa. Revised plans in progress. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, T. P. Ward, Ridley Park, Pa.

School (add.), Main street, adjacent Memorial Park, Lansdale, Pa. Preliminary sketches being prepared. Site purchased. Architect, Watson K. Phillips, 213 South Fifth street, Philadelphia. Owners, School Board of Lansdale, K. R. Smith, supervising principal, Lansdale, Pa.

Factory, Lancaster, Pa. Plans in progress.

Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Dewalt Products Corporation, care of architect. Brick, steel, 1 and 2 stories, 100x225 feet, composition roof, concrete floors, roof ventilators, vapor heat, electric light, steel sash, fire doors.

Residence, Manheim, Pa. Plans in progress. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, A. W. Eiman, Manheim, Pa. Brick, 2½ stories, 28x40 feet, 20x20 feet, slate roof, hardwood floors, vapor heat, electric light, tile work.

Residence, Ephrata, Pa. Plans in progress. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, name withheld. Stone, 2½ stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Mausoleum, Allentown, Pa. Plans in progress. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Community Mausoleum Co., Allentown, Pa. Granite, limestone, tile and marble work.

School (add.), Trevoze, Bucks County, Pa. Plans about completed. Will soon take bids. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board, A. T. Lippincott, Cornwells, Pa. Stone, frame, 4 class rooms, unit heat, ventilating, wood floors.

School (add.), Andalusia, Bucks County, Pa. Plans about completed. Will soon take bids. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board, A. T. Lippincott, Cornwells, Pa. Brick, precast stone, 33½x93 feet, two class room unit heat, ventilating, steel trusses, concrete work.

Apartment House, Park and Spring avenues, Elkins Park, Pa. Plans completed. Owner ready for bids. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owner, H. B. Cahan, Bankers' Trust Building, Philadelphia. Red skintled brick, stucco, half timber, 4 stories and basement, 142x160 feet, 24 housekeeping apartments, servants' quarters in basement.

High School, Collingdale, Pa. Revised plans in progress. Ready for bids in 10 days. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, Board of Education, W. H. Milbourne, Collingdale, Pa.

Grade School, Twin Oaks, Pa. Plans completed. Will take bids in one week. Architect, F. C. Watson, Crozer Building, Chester, Pa. Owners, Upper Chichester School District, G. M. Snyder, Marcus Hook, Pa. Three class rooms, slag roof, brick, stucco.

Apartment House, Ashbourne and West avenues, Elkins Park, Pa. Plans in progress.

Owner will be ready for bids (sub) in one week. Owner, Stanley M. Getz, 6730 York road, Philadelphia. Brick, steel, timber trim, 4 stories, 50x200 feet, 70 apartments, slag roof, vapor heat, electric light, oil burners, fire tower, door beds, refrigeration, incinerators, laundry and kitchen equipment.

Residences (58), Sharon Hill, Pa. Architect taking sub-bids. Architect, Charles S. Schaef, 11 South Sixteenth street, Philadelphia. Owners, Sharon Hill Improvement Corporation, William Swaab, 812 Crozer Building, Philadelphia. Brick, 2 stories, 16x50 feet, slate, slag, tile roof, hardwood floors, hot water heat, electric light, metal lath, cement work, garages in basement.

Fire House (add.), \$5,000. Sanatoga, Pa. Owners about ready for bids. Architect, A. S. Kepner, 121 North Hanover street, Pottstown, Pa. Owners, Sanatoga Fire Company, E. S. Hartenstine, Chairman of Building Committee, Sanatoga, Pa. Brick, 2 stories add., 18x50 feet.

Residences (8) (detached), West Chester pike and One Hundred and Twenty-fifth street, Broomall, Pa. Owner taking sub-bids due as soon as possible. Architect, Ernest Flagg, 111 East Fortieth street, New York City. Owner, W. E. D. Welch, West Chester Pike and One Hundred and Twenty-fifth street, Broomall, Pa. Stone, brick, 2½ stories and basement, 25x40 feet, slate roof, oak and pine floors, bronze fireplaces, hot water heat, electric light, tile.

Bowling Alley, Bryn Mawr, Pa. Owner taking sub-bids. Architect, private plans. Owner, W. J. O'Brien, 1316 Locust street, Philadelphia. Brick, limestone, 1 story, 85x115 feet, slag roof, cement and pine floors, electric light.

Residences (24), Springfield, Pa. Architect taking sub-bids due as soon as possible. Architect, M. J. Reiser, Woolworth Building, Lansdowne, Pa. Owner, Samuel K. Johnson, care of architect. Brick, 2 stories, 20x37 feet, slate and slag roof, hardwood floors, hot water heat, electric light, tile work, basement garages.

Hosiery Mill, Birdsboro, Berks County, Pa. Owners will be ready for bids in a few days. Owners, Kuersten & Rick, Hosiery Manufacturers, care of George Rick, 132 Wood street, Reading, Pa.

Church, Lancaster, Pa. Architects will be ready for bids in two weeks. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Andrew's Reformed Church, J. P. Sherry, Lancaster, Pa. Brick, limestone, steel, 1 story and basement, 46x100 feet, slate roof, wood floors, vapor vacuum heat, electric light, leaded glass, waterproofing, cinder concrete block.

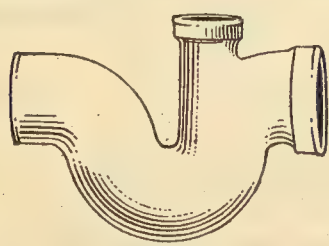
Residence, Ephrata, Pa. Owner will take sub-bids. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, J. A. Kurtz, Ephrata, Pa. Cinder block, stucco, 2 stories and basement, 26x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Residence (alts. and add.), Narberth, Pa. Architect will be ready for bids in one week. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, Frank B. Allen, Lewis Building, Philadelphia. Stone, frame, general renovation.

Factory, Lancaster, Pa. Architect will be ready for bids next week. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, S. B. Lawrence, Lancaster, Pa. Brick, steel, 3 stories, 100x150 feet, composition roof, concrete floors, roof ventilators, electric work, steel sash, fire doors.

Store and Office (alts. and add.), 20½ North Queen street, Lancaster, Pa. Architect will

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be ready for bids June 10th, due June 20th. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, B. W. Shaub, 445 College avenue, Lancaster, Pa. Stone front, brick, 3 stories, 30x40 feet, composition roof, hardwood and linoleum floors, heating extension, electric light, tile, marble, casement windows, bronze work.

Office Building, Manheim, Pa. Owners will build. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owners, Hershey Machine & Foundry Co., J. H. Missley, Manheim. Brick, steel, 2 stories, 45x50 feet, gypsum roof, concrete floors, hollow tile, roof ventilators, skylights, steel sash, tile, metal lath, vapor heat, electric light.

Meeting House (alts. and add.), Meeting House road, Abington, Pa. Owners taking bids due May 20th. Architects, De Armond, Ashmeade & Bickley, 20 South Fifteenth street, Philadelphia. Owners, Abington Friends' Meeting House, Abington, Pa. Stone, 2½ stories and basement, 49x55 feet, excavation, stone work, brick work, concrete and cement work, cut stone, structural steel, carpentry and mill work, oak floors, plastering, electric work, plumbing, bond, Anti-Hydro waterproofing, limestone, iron work, area gratings, slate roof, shingle metal lath, plastering, vapor heat.

Alterations, Northwest Corner West avenue and Johnson street, Jenkintown, Pa. Architect taking bids due May 16th. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, LeRoy Ash, on premises. Brick, excavation, concrete, iron work, carpentry and mill work, painting, glazing, slag roof, metal lath, plastering, plumbing, heating (alts.).

Hospital Building, \$1,500,000. Coatesville, Pa. Owners taking bids due June 21st. Architects, Construction Division, United States Veterans' Bureau, Arlington Building, Washington, D. C. Owners, United States Veterans' Bureau, Arlington Building, Washington, D. C. Brick, steel, 4 stories and basement, hollow tile. Deposit, \$100.

High School, Twenty-first and Market streets, Harrisburg, Pa. Architect taking bids. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, care of Rt. Rev. P. R. McDevitt, 111 State street, Harrisburg, Pa. Fireproof, 2 stories and basement, 160x70 feet, slag roof, maple floors, safety treads, roof ventilators, waterproofing, dampproofing, bond, steel sash, tile, metal lath (heating and plumbing reserved), electric work.

Hospital (alts. and add.) and Occupational Therapy Shops (2) and Exercise Courts, Danville, Pa. Owners taking bids due May 16th, at 2 P. M. Architect, F. Arthur Rianhard, Masonic Temple, Williamsport, Pa. Owners, Danville State Hospital, Miss Viola Bishel, treasurer, Danville, Pa.

School, \$55,000. Camp Hill, Pa. Owners taking bids due May 28th. Architects, E. J. Minick & S. H. Jamison, 23 North Third street, Harrisburg, Pa. Owners, Camp Hill Borough School Board, Jonas Wagner, president, 1418 Walnut street, Camp Hill, Pa. Brick, reinforced concrete, 1 story and basement, 190x30 feet, slate roof, maple floors, cinder block or hollow tile (heating, plumbing and electric separate), metal lath, tile, bond.

Plymouth Central Office Building, 27-29 Willow street, Plymouth, Pa. Architect taking bids due May 16th. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, 210 Pine street, Harrisburg, Pa. Brick, reinforced concrete, steel, 1 story and basement, 47x38 feet, slag roof, cement floors, steam heat, electric light, metal lath, bond, iron stairs, ornamental iron work.

Residence (alts.), St. Davids, Pa. Architects taking bids due May 17th, 3 P. M. Architects,

Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, J. Keating Willcox, St. Davids, Pa.

Ward Building, Coaldale, Pa. Architect taking bids due May 16th. Architect, Eric Fisher Wood, 233 Oliver street, Pittsburgh, Pa. Owners, Coaldale State Hospital, Coaldale, Pa. Brick, steel, 2 stories and basement, 72x49 feet, composition roof, hollow tile, concrete and cement work, metal lath, plastering, hollow metal doors, elevator doors, caulking, composition floors, marble and tile work, linoleum floors, steel sash, elevators, cement floors, dampproofing, kalamein doors, diet kitchen equipment.

School Building, South Langhorne, Bucks County, Pa. Preliminary plans in progress. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, School District, South Langhorne, Bucks County, Pa.

Apartment House, Rosemont, Pa. Plans ready for general bidders, due May 27th. Architect, private plans. Owner, name withheld, care of Franklin H. Price, Jr., 208 South 41st street, Phila. Brick, steel, concrete, cut stone, terra cotta or cast stone, 5 stories, 197x132½ feet, gypsum deck, slag roof, cement, linoleum, rubber tile floors, laundry equipment, refrigeration, door beds, 130 apartments, vapor heat, oil burners, electric light, tile work, metal lath, wood doors, elevators. Deposit, \$10, refunded.

Residence and Garage, Radnor, Pa. Plans about completed. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Edmond S. Brown, 3 Chew's lane, Wayne, Pa. Stone, 2½ stories, 30x100 feet, slate roof, hardwood floors, vapor heat, oil burners, electric light, tile work.

Kitchen Equipment, Ashland, Schuylkill County, Pa. Owners taking bids due May 16th, at 2 P. M. Owners, Board of Trustees, Ashland State Hospital, W. R. Adamson, chairman Building Commission, Ashland, Pa. Tile work in kitchen, electrical work for kitchen equipment, plumbing for kitchen equipment. Deposit, \$10, refunded. Certified check, 5 per cent.

Supplies, Bridgeport, Pa. Borough engineer, A. J. Scanlon, Bridgeport, Pa. Owners, Borough of Bridgeport, C. J. Coyle, secretary; George Harris, Treasurer. Owners taking bids due June 4th, 8 P. M. (Daylight Saving Time). Certified check, \$25. Crushed stone, ballast stone, spalls liquid, asphalt to product surface treatment and penetration work, bituminous surface course specification E.

Grading Driveway, Cement Work, Spring Mill School Annex, Spring Mill, Pa. Owners

taking bids due May 17th, 8 P. M. (Daylight Saving Time). Owners, School Board of Education, W. J. David, secretary, Conshohocken. Engineers, Hitchcock & Hiltner, 35 West Main street, Norristown, Pa. Removal of old and replacing with new.

Hospital, Lancaster, Pa. Low bidder: H. L. Wiant, 544 Mill street, Lancaster, Pa. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owners, Lancaster General Hospital, F. C. Hilks, superintendent, on premises. Brick, steel, 2 stories.

School (add.), Nether Providence, Pa. Plans ready for bidders May 16th. Owner taking bids due May 14th at 6.30 P. M., open 7 P. M. (S. T.) Architect, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Nether Providence Township School Board, Chas. R. Lewis, Media, Pa. Brick, 2 stories and basement, 6 class rooms.

School, Thirteenth and Union streets, Reading, Pa. Owners taking bids. Architects, Muhlenberg Bros., 113A South 4th street, Reading, Pa. Owners, Reading School Board, Oscar B. Heim, Secretary, Eighth and Washington streets, Reading, Pa.

Miscellaneous Equipment, Crippled Children's Home, Elizabethtown, Lancaster Co., Pa. Owner taking bids due June 5th, 2 P. M. (S. T.) Owner, Dept. of Property and Supplies, T. B. Appel, Secretary, premises. Laundry appliances, kitchen equipment, sterilization equipment, linoleum floors, lighting fixtures, bond, elevators, dental equipment, ice plant. Certified check one-quarter of amount of bid.

Stores, Offices and Apartments, Lansdale, Pa. Architect taking sub-bids. Architect, Franklin & Conner, 17 West Main street, Lansdale, Pa. Owner, Samuel Fruit, 203 West Main street, Lansdale, Pa. Brick, steel, 3 stories, 50x100 feet, slag roof, oak floors, hot water heat, electric light, kalamein doors.

Office Building, Lansdale, Pa. Architect, Franklin & Conner, Lansdale, Pa. Owner will build and will take sub-bids. Owner, Crupp Myers Hoffman, Lansdale, Pa. Brick, 2 stories, 20x30 feet, built-up roof, maple floors, hot water heat, electric light.

Lodge Building (add.), Lansdale, Pa. Architect will build, ready for sub-bids in a few days. Architect, Franklin & Conner, Lansdale, Pa. Owner, Lansdale Masonic Lodge, D. T. Kirk, 509 Walnut street, Philadelphia. Brick, steel, stone, one story and basement, built-up roof, cement and tile floors, electric light, vapor heat, metal lath, tile work, steel sash, autoclave stoker, millwork, remodeling of stone work.

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Service Station, Bryn Mawr, Pa. Plans in progress. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, Carmine & Tacconelli, care Architect. Brick and concrete, 1 and 2 stories, 35x80 feet, slate and tile roof, concrete and hardwood floors, hot water heat, electric light, metal sash.

Sanatorium, Springfield, Pa. Plans completed. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, name withheld. Brick, steel, concrete, gypsum block, 2 stories, 68x125 feet, hot water heat, electric light, tile work, slate roof, cast stone, rubber tile linoleum floors, refrigeration.

Garage, Country Line road, Bryn Mawr, Pa. Plans about completed. Architect ready for general bids. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, Andrew Marmer, Bryn Mawr, Pa. Brick, steel, reinforced concrete, one story, 40x69 feet, hot air fan system heat, electric light, concrete floors, Swarthout ventilation, Crest prism glass, metal sash, overhead.

Apartment (add.), Bryn Mawr, Pa. Architect ready for bids. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, Andrew Marmer, Bryn Mawr, Pa. Brick, 2 stories, 19x32 feet, hardwood floors, cement work, electric light, hot water heat, metal sash.

Road Work, Pennsylvania. Owners taking bids due May 22nd, at 10 A. M. Owners, Commonwealth of Pennsylvania, Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa.

Allegheny County, R-246, Sec. 5, Ross Township, West View Borough, 7,120 feet. One course reinforced concrete. Certified check, \$2,500.

Allegheny County, R-377, A-5566, Versailles and North Versailles Townships, 14,791 feet. One course reinforced concrete. Certified check, \$3,000.

Berks County, R-146, Exeter Township, St. Lawrence Borough, 28,425 feet. One course reinforced concrete. Certified check, \$4,000.

Cambria County, A-5802, Upper Yoder Township, Southmont Borough, 2,760 feet. One course reinforced concrete. Certified check, \$500.

Clearfield County, R-62 Spur, Penn Township, Lumber City Borough, 6,358 feet. Bituminous surface treated macadam surface

course, 617 feet grading and drainage. Certified check, \$1,000.

Greene County, R-111, Sec. 5, A-4283-A, Jackson Township, 4,431 feet. One course reinforced concrete. Certified check, \$1,000.

Indiana County, R-54-2, Cambria County, R-301-3, Pine Township, Blacklick Township, 38,256 feet. One course reinforced concrete, 640 feet grading and drainage. Certified check, \$7,000.

Indiana County, R-319, Sec. 2, Armstrong Township, Shelocta Borough, 617 feet. One course reinforced concrete. Certified check, \$1,500.

Lehigh County, R-153, Sec. 2, Upper Saucon Township, 16,030 feet. One course reinforced concrete, 900 feet grading and drainage. Certified check, \$2,500.

Schuylkill County, R-226, A-5466, West Penn Township, 7,697 feet. One course reinforced concrete. Certified check, \$1,500.

Snyder County, R-28, Beaver, Spring and West Beaver Townships, 29,311 feet. Grading and drainage. Certified check, \$2,000.

York County, A-1993, Manchester and East Manchester Townships, 12,085 feet. Bituminous surface treated macadam surface course. Certified check, \$1,000.

Arch Bridge. Butler County, Route 73, Slippery Rock Township, 5,925 cubic yards excavation, 1,754 square yards reinforced concrete pavement, reinforced concrete, 2 spans, 70 feet each, roadway 27 feet, sidewalk 5 feet. Certified check, \$1,500.

Beam Bridge. Chester County, Route 137, Station 205, East Bradford Township, over Valley Creek, all according to plans S-203, 456, 181 and 214. (2) spans 36 feet each, plain concrete abutments, reinforced concrete bridge pavement. Certified check, \$500.

Bridges (2), Chester County, Route 137, East Calm and West Bradford Townships, over East Branch of Brandywine Creek, according to plans S-498. (1) 2 spans 68 feet each, (1) 3 spans, 72 feet each, reinforced concrete bridge pavement. Certified check, \$2,000. Forms and specifications free. Construction drawings, \$2.50 per set. Cross section drawings, \$5 per set.

Road Work, Pennsylvania. Owners taking bids due May 23rd, at 10 A. M. Owners, Commonwealth of Pennsylvania, Department of Highways, James L. Stuart, secretary, Capitol Building, Harrisburg, Pa.

Allegheny County, R-70-4, B1, A-4358, 3758-A, Harmar Township, 804 feet. One course reinforced concrete, 1,059 feet. One course reinforced concrete and vitrified brick pavement. Certified check, \$1,000.

Beaver County, R-278, Sec. 1A and 3, A-5533, Georgetown Borough, Greene Township, 15,065 feet. One course reinforced concrete, 200 feet grading and drainage. Certified check, \$3,500.

Blair County, R-260, Sec. R-4, Catharine Township, 9,633 feet. One course reinforced concrete. Certified check, \$2,000.

Bradford County, R-20, Sec. 11, Columbia Township, 1,587 feet. One course reinforced concrete. Certified check, \$1,000.

Cambria County, A-5801, 5535, Stony Creek Township, Lorain Borough, 5,174 feet. One course reinforced concrete. Certified check, \$1,000.

Fayette County, R-113, Sec. 3, Brownsville, Menallen and Redstone Townships, 37,314 feet. One course reinforced concrete. Certified check, \$6,000.

Lackawanna County, R-322, A-6143, Sec. 2, Scott and Benton Townships, 6,707 feet. One course reinforced concrete. Certified check, \$2,000.

Luzerne County, R-4, Sec. 6-A, Larksville, Edwardsville, Kingston Boroughs, 4,417 feet. One course reinforced concrete. Certified check, \$1,000.

Lycoming County, R-20, Old Lycoming Township, 4,501 feet. One course reinforced concrete. Certified check, \$1,000.

Northampton County, R-165-166, A-6219, Wind Gap Borough, 6,691 feet. One course reinforced concrete. Certified check, \$500.

Northumberland County, R-336, Zerbe Township, 5,289 feet. One course reinforced concrete. Certified check, \$2,000.

Schuylkill County, R-718, Ashland Borough, Butler Township, 4,916 feet. One course reinforced concrete. Certified check, \$1,500.

Schuylkill County, R-185, Rush and Kline Townships, 1,527 feet. One course reinforced concrete. Certified check, \$1,000.

Washington County, R-247, Sec. 16, Finleyville Borough, Union Township, 4,063 feet. One course reinforced concrete. Certified check, \$1,000.

Westmoreland County, R-119, Sec. 3B-4B, Ligonier and Unity Townships, 15,725 feet. One course reinforced concrete. Certified check, \$3,000.

Arch Bridge, Bucks County, over Neshaminy Creek, Southampton and Middletown Townships, Route 252, according to plans S-516, reinforced concrete, (3) spans, 70 feet each.

Forms and specifications free. Construction drawings, \$2.50 per set. Cross section drawings, \$5 per set.

Road Work, Pennsylvania. Owners taking bids due May 24th, at 10 A. M. Owners, Commonwealth of Pennsylvania, Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa.

Allegheny County, R-76, Sec. 4, Kennedy, Robinson, Moon Townships, Coraopolis Borough, 16,360 feet. Vitrified brick pavement on plain concrete base. Certified check, \$3,500.

Armstrong County, R-188, A-5779, Kiskiminetas Townships, 3,646 feet. One course reinforced concrete. Certified check, \$1,000.

Blair County, R-260, Sec. R-3, A and B, Frankstown Township, 8,073 feet. One course reinforced concrete, 193 feet grading and drainage. Certified check, \$2,000.

Bradford County, A-5800, Sayre Borough, 1,404 feet. One course reinforced concrete. Certified check, \$500.

Cambria County, A-5538, Stonycreek Township, 2,999 feet. One course reinforced concrete. Certified check, \$500.



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Cambria County, A-5538, Stonycreek Township, 2,999 feet. One course reinforced concrete. Certified check, \$1,000.

Centre County, R-219, Sec. 4, Boggs-Howard Townships, Milesburg Borough, 23,305 feet. One course reinforced concrete. Certified check, \$3,500.

Delaware County, R-144, Newtown Township, 7,222 feet. One course reinforced concrete. Certified check, \$1,500.

Erie County, R-272, A-5604, 5605, Elk Creek and Franklin Townships, 20,150 feet. One course reinforced concrete. Certified check, \$2,500.

Fayette County, R-501, Sec. 1, Wharton, North Union and South Union Townships, 26,262 feet. One course reinforced concrete, 185 feet, bituminous surface treated macadam surface course. Certified check, \$6,000.

Indiana County, R-68, Sec. R-3, White Township, 7,607 feet. One course reinforced concrete. Certified check, \$2,000.

Luzerne County, R-170, Sec. 6, Butler, Dorrance, Wright and Fairview Townships, 47,194 feet. One course reinforced concrete. Certified check, \$7,000.

Mercer County, R-82, Greenville Borough, 1,618 feet. Bituminous surface course, Specifications A, D or E. Certified check, \$500.

Mifflin County, R-192, Brown Township, 3,702 feet. Grading and drainage. Certified check, \$500.

Northumberland County, R-1, A-5014, Lower Augusta Township, 7,298 feet. One course reinforced concrete. Certified check, \$1,500.

Washington County, R-118, 247, Fallowfield Township, Charleroi Borough, 5,150 feet. One course reinforced concrete, 1,721 feet vitrified brick pavement on plain concrete base. Certified check, \$1,500.

Westmoreland County, R-117, Sec. 3, Hempfield Township, South Greensburg and Southwest Greensburg Boroughs, 12,079 feet. One course reinforced concrete. Certified check, \$2,500.

Westmoreland County, R-119, Sec. 2C, Ligonier Township, Ligonier Borough, 14,204 feet. One course reinforced concrete. Certified check, \$3,000.

Viaduct, Armstrong County, over Pine Creek and B. R. & P. R. R., Valley Township, Route 66, reinforced concrete, (8) spans, 45 feet each. Certified check, \$2,000.

Bridge, Chester County, Route 131, Kennett Township, reinforced concrete, 36-foot span, temporary bridge, one course reinforced concrete pavement approaches.

Pennsylvania Contracts Awarded

Factory, Spring Mill, Pa. Contract awarded Frank G. Stewart, 1520 Locust street, Philadelphia. Architect, R. B. Bencker, 1601 Chestnut street, Philadelphia. Owners, Walker Brothers, Spring Mill, Pa. Brick, reinforced concrete, steel, 4 stories and basement, 190x99 feet, bond, excavation, concrete and cement work, caulking, cinder block, architectural terra cotta, hollow tile, Barrett specification roof, metal toilet partitions, metal lath, plastering, kalamein doors, tin-clad doors, iron work and stairs, steel sash, carpentry and mill work, pine floors, painting, glazing, hardware, elevator, copper skylight.

Fire House, Berwyn, Pa. Contract awarded F. H. Wilson, Ardmore, Pa. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Berwyn Fire Company, No. 1, Edward Stumpf, chairman, Berwyn, Pa. Brick, cast stone, 2 stories and basement, 80x40 feet, bond, excavation, stone masonry, concrete work, floor hardener, concrete block, iron work, iron gratings, steel sash, asbestos shingle roof, metal ceilings, metal lath, plas-

tering, dumb waiter, carpentry, mill work, maple floors, painting, glazing, hardware, plumbing, hot water heat, electric light.

Power Plant, \$100,000. Middletown, Pa. Contract awarded J. W. Pomraning, Mechanics' Trust Building, Harrisburg. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Odd Fellows' Home of Pennsylvania, Middletown, Pa. Brick, reinforced concrete, steel, 1 story, 45x48 feet, excavation, bond, integral waterproofing, iron work, iron stairs, steel and tin-clad doors, rolling steel doors, metal partitions, steel sash, painting, glazing, slag roof, concrete roof.

Consolidated School, Duncannon, Pa. Contract awarded Hampton, Snyder & Seeds, New Bloomfield, Pa. Heating to J. C. Bowman, Penbrook, Harrisburg, Pa. Plumbing, J. H. Geiger, Duncannon, Pa. Electric, J. L. Crumm, Penbrook, Harrisburg, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Penn Township School Board, J. G. Mutzabaugh, Duncannon. Brick, 1 story and basement, 120x60 feet, Barrett roof, yellow pine and oak floors, roof ventilators, electric light, metal lath, bond.

Church, Shoemakerville, Pa. Contract awarded Wheeler & Stitzel, Shoemakerville, Pa. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, St. Luke's Union Church, R. Wolf, Shoemakerville, Pa. Stone, steel, 1 story and basement, 128x40 feet, slate roof, oak floors, vapor heat, electric work, metal lath, steel sash, iron pipe, waterproofing, bronze work, bond.

Science Building, Reading, Pa. Contract awarded J. C. Dethoff, 1600 Hampden Boulevard, Reading, Pa. Plumbing and heating to Wasner & Reddig, 206 North Sixth street, Reading, Pa. Electric to George Anspach, Reading, Pa. Architects, Muhlenberg Brothers, 115 South Fourth street, Reading, Pa. Owners, Albright College, Rev. W. T. Teel, president, Thirteenth and Exeter streets, Reading, Pa. Stone, steel, 2 stories, 120x57 feet, 21x29 feet, slate roof, wood and composition floors, roof ventilators, electric work, tile, marble.

Garage, Clifton Heights, Pa. Contract awarded John Schnabel, Thirteenth and Chestnut streets, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, Albert H. Bien, Clifton Heights, Pa. Brick, steel, 1 story, 30x35 feet (plumbing, heating, electric reserved), slag roof, cement floors, rolled steel sash.

Residences (3), **Residences (2)**, Elkins Park, Pa. Architect, private plans. Owner, Stanley M. Getz, 6730 York road, Philadelphia. (3) Stone, brick, concrete block, 2½ stories, 26x50 feet (2), 26x60 feet (1). (2) Stone, 2½ stories, 30x70 feet, hot water heat, electric light, tile work, hardwood floors, garage in basement. Owner taking sub-bids on first three residences. Contract awarded to E. J. Heinke, 505 Church road, Philadelphia. Contract on 2 residences awarded to E. J. Heinke, 505 Church road, who will build in the fall.

Residence and Garage, St. Davids, Pa. Contract awarded Powell Construction Co., Ardmore, Pa., who is taking sub-bids. Architect, private plans. Owner, John W. Klenn, St. Davids, Pa. Stone, frame, 2½ stories and basement, 40x26 feet, garage, 1 story, 18x18 feet, shingle roof, oak, pine and cement floors, hot water heat, electric light.

Duplex Residences, Huntingdon, Pa. Contract awarded Berkebile Brothers, Johnstown, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Juniata College, Huntingdon, Pa. Brick, 2½ stories, L shape, 25x69 feet, wing 25x29 feet, slate roof, oak and pine floors, plumbing, hot water heat, electric light, slate roof, oak and pine floors, plumbing, hot water heat, electric light, tile.

Bank Building (alts.), \$125,000. High and Hanover streets, Pottstown, Pa. Contract awarded F. H. Keiser & Co., Pottstown, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Security Trust Company, Dr. J. Elmer Potter, Pottstown, Pa. Stone, brick, steel, 1 story and basement, new front, general interior alterations.

Residence and Garage, Hilltop, Merion, Pa. Contract awarded to Raymond L. J. Riling, 1425 West Venango street. Architect, Richard W. McCaskey, Otis Building, Philadelphia. Owner, William J. Cahill, care of Chandler & Rankin, Packard Building, Philadelphia. Brick, 2½ stories.

Residence and Garage, Baltimore and Riverview streets, Swarthmore, Pa. Architect, J. Liner Conarroe, 1518 Walnut street, Philadelphia. Contract awarded F. K. Worley Construction Co., Wesley Building, Philadelphia. Owner, Charles Andes, care of architect. Brick, frame, 2½ stories and basement, 70x25 feet, shingle roof, oak and pine floors, tile work.

Residence, Lancaster, Pa. Contract awarded W. B. Aierstuck, 34 East Chestnut street, Lancaster, Pa. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owner, George Arisman, 77 Spencer avenue, Lancaster, Pa. Brick, 2½ stories, 41x70 feet, shingle roof, hardwood and linoleum floors, hot water heat, electric light, tile work.

Residence, Lancaster, Pa. Contract awarded Edward Brenner, Millersville, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, D. Davidson, care of architect. Stone, 1½ stories, 28x45 feet, shingle roof, hardwood floors, hot water heat, electric light, oil burners, tile work, flagstone.

Store and Apartment, Ardmore, Pa. Contract awarded J. L. Fawley, 2121 Walnut street, Philadelphia. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1420 South Penn Square, Philadelphia. Brick, steel, 3 stories and basement, 16x85 feet, slag roof, oak, pine, cement floors, metal lath, tile work, bond, ornamental iron work.

Municipal Fire Alarm Headquarters, Electric Light Plant and Garage, Lafayette and Water streets, Norristown, Pa. Contract tentatively awarded to Hood & Gross, 1535 Chestnut street, Philadelphia, \$61,975. Plumbing, F. H. Boyer, Norristown, Pa. Pending third meeting of Council to be held May 21st. Architect, H. Gordon McMurtrie, 1321 Arch street, Philadelphia. Owners, Borough of Norristown, C. R. Palmer, Norristown, Pa. Brick, 1 and 2 stories, 70x186 feet, built-up roof, reinforced concrete.

Stores (2), 216-18 Ardmore avenue, Ardmore, Pa. Contract awarded F. H. Wilson, Ardmore, Pa. Architects, Sundt & Wenner, 1701 Arch street, Philadelphia. Owner, Joseph Delgesse, 33 Greenfield avenue, Ardmore, Pa. Brick, reinforced concrete block, 1 story, 37x36 feet, slag roof, pine floors, hot water heat, electric light, metal ceilings, plate glass, copper.

Media Inn and Restaurant, Baltimore pike and Providence road, Media, Pa. Contract awarded E. K. North, Media, Pa. Architect, E. Kenny Crothers, Media, Pa. Owner, H. J. Patton, Media, Pa. Brick, frame, stucco, 3 stories, 47x36 feet, 36x25 feet, wing 37x37 feet, excavation, brick work, casement sash (Lupton or equal), ornamental iron work, Massell steel joist (Laub), oak and pine floors, screen, dumb waiter (Little Beauty), metal lath, plastering, plate glass, rubber tile (U. S. Rubber Co.), insulite floors, tile floors, slate roof, electric work, plumbing, steam heat.

Schools (5), Ardmore, Cynwyd, Ashland, Pa. Contracts awarded. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, School District of Lower Merion, W. L. Austin, Ardmore, Pa. Vocational School, Ardmore, Pa., Bowden Construction Co., 1607 Summer street, Philadelphia, \$33,090. Junior High School, Ardmore, Pa., Hood & Gross, 1535 Chestnut street, Philadelphia, \$3,120. Senior High School, Ardmore, Pa., Hood & Gross, 1535 Chestnut street, Philadelphia, \$2,939. Cynwyd School, Hood & Gross, 1535 Chestnut street, Philadelphia, \$492. Ashland School, Bowden Construction Co., 1607 Summer street, Philadelphia, \$1,300.

Reconstruction to School, Edgemont avenue, Parkside, Pa. Contract awarded Nichols & Beckett, Glenolden, Pa., \$12,890. Plumbing, L. Hand, Parkside, Pa., \$6,025. Heating, American Heating & Ventilating Co., Schaff Building, Philadelphia, \$4,750. Electric, George Wood, Chester, Pa., \$550.

Kelleyville Bridge, No. 71, between Clifton Heights and Darby, Pa. Contract awarded C. R. Camp, 10 South Eighteenth street, Philadelphia, \$34 cubic yard. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Pouring a 12-inch wide skirting entire length, both abutments, around all piers, together with underpinning of same, 1:2:4 concrete.

Storm Sewer, Marcus Hook, Pa. Contract on gutters awarded Walter I. Newton, Newark, Del., \$2,720. Sewers awarded to T. A. Riley, 12 Rainey street, Chester, Pa. Assistant engineer, Chester S. Baker, Chester, Pa. Owners, Borough of Marcus Hook, C. R. Renni, Marcus Hook, Pa.

Sanitary Sewer, Upper Darby, Pa. Contract awarded Delaware Construction Co., Clifton Heights, Pa., \$7,462.91. Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Township Committee, T. C. Kelly, Upper Darby, Pa. 15-inch and 18-inch sanitary sewer, Roberts avenue, Dermond avenue.

Curbs and Gutters, Darby Township, Pa. Contract awarded Ramsdell Construction Co., Upper Darby, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. 189 lineal feet standard curb and gutters.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, Harrisburg, Pa. Contracts awarded.

Pike County, A-5782, Delaware Township. Bituminous treated macadam surface course. Burgess Brothers & Henry, Fork Union, Pa., \$53,705.50.

Columbia County, R-183, A-5078, Locust Township. One course reinforced concrete. Colonial Construction Co., Pittsburgh, Pa., \$85,095.32.

Church, Wallingford, Pa. Contract awarded Wm. Provost, Jr., Chester, Pa. Architect, Savery & Scheetz, Stephen Girard Bldg., Philadelphia. Owner, Wallingford Presbyterian Church, Wallingford, Pa. Stone, 1½ stories and basement, irregular in size, slate roof, maple and cements floors, steam heat, electric light, metal lath, tile work.

Residence and Garage, Bryn Mawr, Pa. Contract awarded Unkerfer Bros., Otis Bldg., Philadelphia. Owner, name withheld. Architect, Ralph L. Colton, 1520 Locust street, Philadelphia. Stone, frame, 2½ stories, 30x60 feet, shingle roof, hardwood floors, hot water, gas heating, electric light, tile work.

Residence (alts. and add.), Doylestown, Pa. Contract awarded J. S. Bailey & Bro., Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Dr. A. H. Moore, Doylestown, Pa. Brick, concrete block, 2 stories, 14x36 feet, tile work, tin roof, electric light, metal sash.

Store and Apartment, Penn street, Reading, Pa. Contract awarded Fink Construction Co.,

510 Walnut street, Reading, Pa. Plumbing, Walter H. Fritz, 725 Penn avenue, West Reading, Pa. Heating, Walter H. Fritz, 725 Penn avenue, West Reading, Pa. Electric, Stitzer & Waldman, 528 Penn avenue, West Reading, Pa. Architects, Muhlenberg Bros., 113A South Fourth street, Reading, Pa. Owners, Alick Salon, Sixth avenue and Penn avenue, West Reading, Pa. Brick, steel, concrete, 2 stories and basement, 150x44 feet, composition roof, concrete and maple floors, waterproofing, cut stone, incinerators, casement windows, asbestos tile wall, metal lath, tile work.

Residence, Reseto, Pa. Contract awarded Eugene Rissmiller, Pen Argyl, Pa. Architect, C. J. Young, 226 North 6th St., Reading, Pa. Owner, Anthony D. Sabatino, Roseto, Pa. Brick, 2 stories, 28x2 feet, slate roof, hardwood floors, vapor heat, electric light, metal lath, casement windows.

New Jersey Construction News

State Street Bridge (restoration), \$33,000. Camden, N. J. Plans in progress. Engineer, Beale H. Smuckers, Camden, N. J. Owner, Board of Freeholders, Camden, N. J.

Apartment House and Hotel, Boardwalk, Atlantic City, N. J. Tentative plans drawn. Work contemplated. Architect, Frank E. Hahn, 629 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel, stone, concrete, 15 stories, 84 housekeeping apartments, 250 rooms.

Sewage Plant, \$250,000. Shelter Island, Ventnor, N. J. Plans almost completed. Owners will be ready for bids about August. Engineer, Clyde Potts, 30 Church street, New York City. Owners, City of Ventnor and City of Margate, care of Isaac B. Sweigart, Mayor of Ventnor, Ventnor City, N. J.

Residence, Pennsgrove, N. J. Architect ready for bids. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owner, Fred Gentieu, Pennsgrove, N. J. Brick, 3 stories, 40x40 feet, shingle roof, oak and tile floors, tile work, electric light.

School Building No. 4 (add.), Woodbury, N. J. Low bidders. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education, North Broad street, Woodbury, N. J. J. T. Allen, Woodbury, N. J., \$31,591.50; P. G. Hannum, Atlantic City, N. J., \$31,623. Heating and ventilating, Samuel N. Peters, Woodbury, N. J., \$7,700. Electric, Roland D. McMahon, Woodbury, N. J., \$1,296. Plumbing, A. H. Knoettner & Son, Audubon, N. J., \$2,374.

Administration Building (alts.), Municipal Colony, Trenton, N. J. Architect taking bids due May 17th. Architect, W. A. Kleman, First National Bank Building, Trenton, N. J. Owners, City of Trenton, care of architect. General interior and exterior alterations.

Bridges (2), over Menantico Creek and Manumuskin Creek, on Route 47, Section 2, Cumberland County, N. J. Owners taking bids due May 27th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation excavation, concrete, reinforcing steel. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners taking bids due May 20th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J. Route 34, Sec. 1, Matawan to Holmdel, Monmouth County. Earth excavation, soft rock excavation, reinforced concrete pavement, bituminous macadam surface, gravel surface. Certified check, 10 per cent. Deposit, \$10.

Bridges (2), New Jersey. Owners taking bids due May 20th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. (note address). Route 29, bridge over Swan Creek, Sec. 6, Hunterdon County. Concrete, reinforcing steel. Certified check, 10 per cent. Deposit, \$10. Route 31, Sec. 7, bridge over Wallkill River, Sussex County. Concrete, reinforcing steel, structural steel. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners taking bids due May 23rd at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route S-4A, Tuckerton-Little Beach, Ocean County. Excavation, hydraulic fill, gravel surface. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Low bidders. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J.

Route 29, Sec. 2A, Oakland avenue to Stuyvesant avenue, Union Township, Union County. Joseph Ciccone, 5732 Westminster avenue, Philadelphia, \$79,990.41.

Route 37, Sec. 4, Toms River Relocation, Ocean County, N. J. Harrison Construction Co., Seaside Park, N. J., \$220,312.21.

Route 47, Sec. 9, Westville to Glassboro, Gloucester County. Wallace, Tozour & Wall, Millville, N. J., \$189,431.31.

Route 48, Sec. 22, Downtown to May's Landing, Atlantic County. Wallace, Tozour & Wall, Millville, N. J., \$99,237.44.

New Jersey Contracts Awarded

Alteration and Addition, \$2,500, 1135 Mt. Ephraim avenue, Camden, N. J. Contract awarded John Onderski, 1109 Liberty street, Camden, N. J. Architect, Private plans. Owner, Walter Dziatkewicz, 1111 Liberty street, Camden, N. J. Brick, 1 story addition, 23x94 feet, slag roof, general alterations.

Plant No. 6, Trenton, N. J. Contract awarded Karno-Smith Construction Co., Broad Street Bank Building, Trenton, N. J. Architects, Lockwood, Greene & Co., 1 Pershing Square, New York. Owners, Trenton Potteries Co., North Clinton and Ott streets, Trenton, N. J. Brick, reinforced concrete, steel, 5 stories and basement, 63x275 feet, 1 story add., 64x170 feet, 1 story, 46x170 feet, gypsum slag roof, cement floors, rolled steel sash, fire doors, ornamental iron, cinder concrete block, cork insulation, carpentry, mill work.

Residence (alts. and add.), Arlington and Grant avenues, West Collingswood, N. J. Contract awarded M. C. Pennell, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, R. C. Moore, West Collingswood, N. J.

Miscellaneous Construction News

Store (alts. and add.), Market street, Wilmington, Del. Plans in progress. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, J. W. Toavine, 835 Market street, Wilmington, Del. Brick work, 3 stories, 18-foot front, slate roof, general interior and exterior alterations, tile and marble.

Residence, Wawasett Park, Wilmington, Del. Architects taking bids. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, C. A. Sutherland, care of Warden Grey, DuPont Building, Wilmington, Del.

Brick, 2½ stories, 40x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Grade School, Stanton, Del. Owners taking revised bids due May 23rd at 4 P. M. Architects, Guilbert & Betelle, Chamber of Commerce, Newark, N. J. Owners, Delaware School Auxiliary, State School Building Commission, County Building, Wilmington, Del. Brick, concrete, timber roof, 1 story, 32x144 feet. Bidders.

School, Wilmington, Del. Owners taking bids due June 4th at 2.45 P. M. (Daylight Saving Time). Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, Delaware School Auxiliary for St. Elizabeth's Roman Catholic Church (Rev. William Temple), DuPont Building, Wilmington, Del. Brick, steel, 2 stories and basement, 226x78 feet, wing 75x45 feet, slag roof, rolled steel skylights, excavation, reinforced concrete, limestone, bluestone, metal lath, plastering, tile work, terrazzo work, ornamental iron, safety treads, metal toilet partitions, hardware, painting, glazing, steam heat, electric work, plumbing, ventilating system.

Monastery, Christiana Hundred, Delaware. Architect taking bids due May 25th at noon. Architect, George I. Lovatt, 220 South Sixteenth street, Philadelphia. Owner, Sister of Visitation, on premises.

Solution Reduction Building (add.) and Glauber Salt Building, Christiana avenue, Wilmington, Del. Owners will build. Architect, private plans. Owners, The Pyrites Co., Ltd., Christiana avenue, Wilmington, Del. Concrete on piles, hollow tile, 2 and 1 stories, 60x51 feet, 66x206 feet, corrugated iron roof.

Residences (8), \$48,000. Thirty-sixth street, Wilmington, Del. Owner will build. Architect, private plans. Owner, Stephen R. Jackson, 823 Orange street, Wilmington, Del. Brick, stone, 2 stories, 22x32 feet, slag roof, pine floors, hot water heat, electric light.

Office, \$35,000. 900 Market street, Wilmington, Del. Owners will build. Owners, Delaware Land Development Co., Delaware Trust Building, Wilmington, Del. Brick, 1 story, 130x45 feet.

Road Work, Delaware. Low bidders. Contract 118, Dexter's Corner-Delaney, 4.3 miles. Knox-Mariana Co., Ardmore, Pa., \$64,017.80.

Contract 121, Wendell's Corner-Woodland Beach, 3.96 miles. D. E. O'Connell & Sons, Ridley Park, Pa., \$73,419.

Contract CS60, Bacon Station toward Smith Mill, 3 miles. Highway Engineering & Construction Co., Selbyville, Del., \$59,626.50.

Miscellaneous Contracts Awarded

School, Georgetown, Del. Contract awarded Samuel Pasquale, Middletown, Del., \$159,400. Plumbing, T. T. Weldin & Son, 916 Orange street, Wilmington, \$12,757. Heating and ventilating, Lewis Morgan & Son, Salisbury, Md., \$23,400. Electric, Electric Service Co., 706 West Fourth street, Wilmington, \$4,350. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, County Building, Wilmington, Del. Brick, concrete, steel, limestone, 2 stories, 245x81 feet, steel lockers, weather stripping, linoleum, concrete, maple floors, concrete footings, waterproofing, metal lath, iron stairs, safety treads, Barrett specification roof, copper skylights, metal ceilings, kalamein doors and frames, wrought iron pipe.

Church, Wilmington, Del. Contract awarded W. D. Haddock & Co., 804 Orange street, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Own-

ers, First Central Presbyterian Church, care of architects. Brick, steel, stone, 1 story and basement, 80x120 feet, slate and composition roof, hardwood, tile and composition floors (heating, plumbing and electric separate), tile, marble, roof ventilators, iron work, acoustical treatment, waterproofing and dampproofing.

Residence, Centerville, New Castle County, Del. Contract awarded Stephen Jackson, 823

Orange street, Wilmington, Del., who is taking sub-bids due May 22nd. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, R. T. Ellis, care of builder. Stone, steel, brick, 2½ stories, 102x76 feet, slate roof, gypsum tile roof, hardwood and tile floors (heating, plumbing and electric reserved), tile, marble, fire and kalamein doors, bond, incinerators, bluestone, flagstone, architectural terra cotta, travertine work.

AS THE EDITOR SEES IT

The position occupied by general contractors during the past 15 years has been similar to that of a beleaguered garrison, claimed Thomas T. Flagler, Atlanta, Ga., in a president's message to the Associated General Contractors.

Beset on all sides by uneconomic business customs and methods, unwise statutes that promote loose credit conditions and short sighted practices in the letting of contracts, the mortality among contracting firms has been high, pointed out president Flagler in detailing the high points of the program to be placed before the executive board of the contractors' association at Oklahoma City, May 16.

Plans for the remedying of the basic difficulties in the construction industry have not only been formulated but have been applied far enough to show their value in specific localities. Loose credit practices that result in staggering losses to material dealers, in unpaid accounts and which not infrequently subject owners to demands for dual payment on materials through the operation of lien laws, can be remedied through the credit plan which is to be a principle point for discussion by the Oklahoma City meeting, it was claimed. The purpose of again bringing this plan up on May 16, is to further devise ways and means to get it into operation in every community in the nation.

General contractors are interested in remedying loose credit conditions that work a hardship on material men, subcontractors and owners, it was explained by president Flagler, because those conditions are one of the roots of the irresponsible competition which make sound business policies difficult for general contractors to pursue successfully.

The essence of the plan is to arrange for the gathering and proper dissemination of information on the credit standing of every contractor in a community. Such procedure has long been established practice in many other industries but the credit of contractors has never been subjected to similar analysis.

Risks taken by those contractors who are bears on the construction material

markets have been greatly increased during the past three months according to a statistical study just completed by the Associated General Contractors of America.

The occasional practice of contractors who discount their bid prices in the expectation of riding through to a final profit depends on the anxiety of subcontractors and material men to find an outlet for their services and products. This has frequently been shown to be bad business, it was announced by the association.

The figure for prices paid for building materials rose one point in February to index number 89. That gain was held in March, and during April advanced another point to index 190. The comparison is with a base figure of 100 prevailing in 1913.

The actual costs of construction were not materially affected by this latter movement for costs remained level during April at index 204, according to this study.

The manner in which unethical or irresponsible contractors gambled in futures was through cutting bid prices down to the point where they were assured of being low bidders on new projects. By playing one anxious seller of material or service against another the attempt is then made to pass along the effect of these low bid prices.

It was also explained that the quality of work that is given the owner seldom interests those who supply the cut price jobs.

A plan to aid public officials and private owners in avoiding the experience of having a contractor default on contract work before the completion of a project will be discussed at the meeting of the Executive Board of The Associated General Contractors in Oklahoma City, May 16.

This was announced by S. M. Williams, manager of the Engineering Construction Division of the contractors' association. It was made regarding the recent establishment of a basis for co-operation between general contractors and those bonding companies that underwrite surety bonds guaranteeing contract performance.

The plan involves establishing the means to gather information on how contractors have performed their contract obligations in past dealings and when fully operating, it is claimed, will make available an exact picture of the facts to the surety companies when considering any application for a surety bond.

This plan is the outgrowth of six years of discussion with surety companies and was only advanced toward concrete establishment last January 31, after both organized contractors and the surety companies got together in a bureau set up for co-operative effort.

All details of the plan have been worked out and it is expected that actual work on the listing of contract performance data will begin after meetings on May 16 in Oklahoma City and on June 4 in New York.

At the Oklahoma City gathering, general contractors through their association will be called upon to approve the final details of the plan which will then be presented in New York to the surety companies. Both groups have already approved of the plan in principle but have not examined the details worked out for its application.

Advantages accruing to building and allied trades by the use of concise, enforceable arbitration clauses in their contracts were grouped under six heads by L. K. Comstock, prominent New York builder at the Indianapolis Building Congress recently. Mr. Comstock is Chairman of the Finance Committee and a Director of the American Arbitration Association, as well as Chairman of the Arbitration Committee of the New York Building Congress. His active participation in the promotion of arbitration has made him one of the most quoted figures on that subject in the building world.

1. Arbitration conserves friendly relations.

"It is trite to say that a lawsuit is a battle, often more a campaign than a single engagement," said Mr. Comstock, "degenerating into the situation where the parties seek to do each other the greatest possible injury, regardless of individual benefits. Not so with arbitration. Where there is a submission made after the dispute arises the parties have voluntarily adopted the new type of judicial procedure, for arbitration deserves to be so understood. They seek a speedy and just determination with minds prepared to accept the decision and to conform to it. And when arbitration follows as the result of an agreement made before a controversy has developed there is even less opportunity for hard feelings to arise."

2. Arbitration is private—

"The unavoidable publicity of a trial court is in many instances a cause for grievance," declared Mr. Comstock. "Parties are often unwilling to disclose their private affairs in the presence of trade rivals and curious spectators. Nothing is gained by this notoriety. In arbitration there is a minimum of embarrassment in this way."

3. Arbitration Affords Expert Adjudication—

"Business has always been technical," he continued, "and more or less a law to itself. When disputes involving business custom—and they are numerous—get into court by jury, the necessity exists not merely of proving the case, but of educating the jury to the point of understanding the relevancy of the facts. By expert witnesses under rules of evidence this education is accomplished in a most tedious and awkward manner. Ordinarily a majority of the jury are actually disqualified in mentality or experience to grasp the situation."

"Arbitrators, if wisely selected are well versed in the technicalities and terminology of the industry and otherwise well qualified by temperament and training to hear disputes and render impartial judgments."

4. Arbitration Dignifies the Parties.

"Juries are unfitted," he held, "for making expert discriminations and their verdicts can not be expected to compete for accuracy with the award of an arbitrator well versed in the intricacies of business custom. The tactics commonly considered necessary in trying cases before juries are unknown in arbitrations. The appeal to emotion becomes ridiculous. The amenities of business are conserved."

Arbitration Saves Time—

"Time may be saved in two important ways"; he said, "first, in securing final determinations more speedily than is possible in most courts, and secondly, in reducing the time actually devoted to the trial."

"Court trials can never achieve the flexibility which is inherent in arbitration. A hearing set by an arbitrator is not at the mercy of other like proceedings. It can begin on the minute. It has the right of way. Witnesses lose a minimum of time. Adjournments can be made to meet the convenience of all concerned."

6. Arbitration is Cheaper.

"The poor man has a chance," he concluded. "It's an old phrase of the English Common Law that every man is entitled to his day in court. It is a well known fact that the poor man's day in court isn't worth much to him, because

his financially stronger opponent can fatigue him into submission; because he cannot afford the necessary time. But arbitration is both speedy and economical and every man who has a commercial dispute can afford both the time and the money to arbitrate. The only known alternative to a law suit, or acceptance by duress, is arbitration under the auspices of an established and recognized institution with proper arbitral facilities. Arbitration is more economical than any other means of settling commercial disputes."

WE ASK YOU

Isn't it funny?
THAT A MAN WHO CONSIDERS
HIMSELF A BUSINESS MAN
Will get up in the morning
From an advertised mattress,
And put on advertised underwear,
Advertised hose, shirt, collar, tie and shoes.
Beat himself at a table and
Eat advertised breakfast food,
Drink advertised coffee or substitute,
Put on an advertised hat,
Light an advertised cigar,
Go to his place of business and
TURN DOWN ADVERTISING ON THE
GROUND THAT ADVERTISING DOESN'T
PAY!

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Metalweld, Inc. ...26th and Hunting Park Ave., Phila.

AIR COMPRESSORS FOR HIRE

Compressed Air Service Corp.,
5531 Haverford Ave., Phila.

Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.

Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.

Rental Service Co.20th and Venango Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co.371 Drexel Bldg., Phila.

Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co.818 N. 48th St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.

Weber, F., Co.125 S. 12th St., Phila.

Weil, J. H., Co.1315 Cherry St., Phila.

ASBESTOS WALL PANELS

Howard Ketcham3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop1520 Sansom St., Phila.

Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.

Weber, F., Co.125 S. 12th St., Phila.

Weil, J. H., Co.1315 Cherry St., Phila.

BOILER AND PIPE COVERING

Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

BRICK

Cox, Janeway & Co.Real Estate Trust Bldg., Phila.

Ketcham, O. W.121 N. 18th St., Phila.

BUILDERS

Anthony Darin & Bros.5552 Master St., Phila.

Mitchell Bros.2125 Race St., Phila.

John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDING MATERIALS

Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

Warner Company1518 Walnut St., Phila.

BUILDERS' SUPPLIES

Service Supply Corp.20th & Venango Sts., Phila.

CABINET WORK

Huskey Mfg. Co.Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co.1320 Race St., Phila.

CASEMENTS (Window or Door)

DePett Casements900 Chestnut St., Phila.

CAULKING

Malia, Thos. J.226-32 W. Mentor St., Phila.

Jules H. Rosenberg2313 Walnut St., Phila.

CAST STONE

Cast Stone Products Co.,
25th and B. & O. R. R., Wilmington, Del.

New Jersey Cast Stone Co.Vineland, N. J.

CEMENT WORK

D'Lauro, John7732 Ardleigh St., Phila.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co.1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT

Service Supply Co.20th and Venango Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.

DAILY BUILDING NEWS

Building News Pub. Co.1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
1518 Walnut St., Phila.

Barnett Bingswanger, Jr.829 N. 3rd St., Phila.

Hydroseal Waterproofing Co.829 N. 3rd St., Phila.

DISMANTLING

Industrial Dismantling Co.,
2500 E. Huntingdon St., Phila.

DOOR BEDS

Murphy Door Bed Co.Lewis Bldg., Phila.

DRAWING MATERIALS

Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.

Weber, F., Co.125 S. 12th St., Phila.

Weil, J. H., Co.1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR

W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRIC HEATERS

Steinmetz & Co., Inc.1204 Morris Bldg., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co.1026 Arch St., Phila.

ELECTRIC SAWS

Crowe Safety Saw Sales Corp.,
515 Real Estate Trust Bldg., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth1518 Walnut St., Phila.

FIREPROOFING

Pearce Fireproof Co.1911 N. 2nd St., Phila.

FLAG POLES

J. E. Lingo & Son, Inc.Camden, N. J.

FLOORING COMPOSITION (Mineral)

Selby, Battersby & Co.810 Noble St., Phila.

FLOOR HARDENER

Anti-Hydro Waterproofing Co.1518 Walnut St., Phila.

Hydroseal Waterproofing Co.829 N. 3rd St., Phila.

FLOORING (Cork)

Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.

Selby, Battersby & Co.810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)

Selby, Battersby & Co.810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co.Lafayette Bldg., Phila.

Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.

Selby, Battersby & Co.810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co.371 Drexel Bldg., Phila.

FLUE LINING

Clausen, Wm. H.27th and Diamond Sts., Phila.

FOUNDATIONS

Foundation & Construction Co.1320 Race St., Phila.

GAS RANGES

Philadelphia Gas Range Co.1026 Arch St., Phila.

GRATINGS

Kerlow Steel Flooring Co.371 Drexel Bldg., Phila.

GUARDS (Machine and Engine)

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

HEATING CONTRACTORS

Bowers Bros. & Co.2015 Sansom St., Phila.

HOLLOW TILE

Clausen, Wm. H.27th and Diamond Sts., Phila.

Cox, Janeway & Co.Real Estate Trust Bldg., Phila.

Ketcham, O. W.121 N. 18th St., Phila.

INSURANCE

Insurance Co. of North America1600 Arch St.

Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

Simpson-Anderson Co.Widener Bldg., Phila.

Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)

Henry A. Hitner's Sons Co.,
Gaul and Huntingdon St., Phila.

Lederle, Robt. B., & Co.Witherspoon Bldg., Phila.

Montgomery Iron & Steel Co.2500 Duncan St., Phila.

Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co.1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.

Weber, F., Co.125 S. 12th St., Phila.

Weil, J. H., Co.1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.

LOCKERS (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., N. J.

LUMBER

Ketcham, Howard3rd and Girard Ave., Phila.

MARBLE

Frank W. Butterworth1518 Walnut St., Phila.

MARBLE AND MOSAIC

Belf Bros. Co.1923 Market St., Phila.

Franklin Tile & Mosaic Co.1344 Ellsworth St., Phila.

Italian Marble Mosaic Co.433 Spruce St., Phila.

Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.

Roman Mosaic & Tile Co.435 Green St., Phila.

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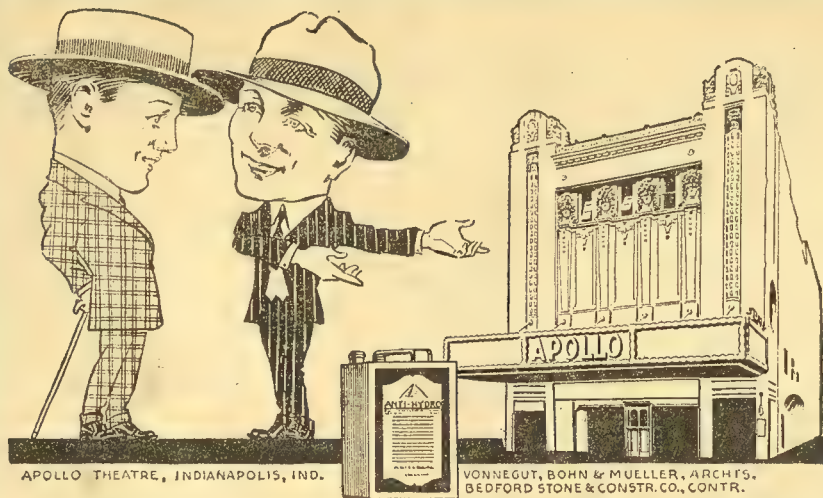
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 21
May 22, 1929

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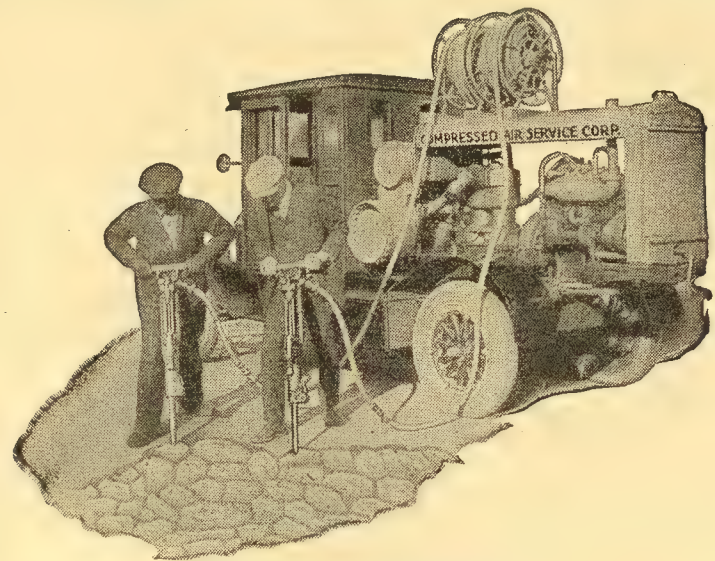
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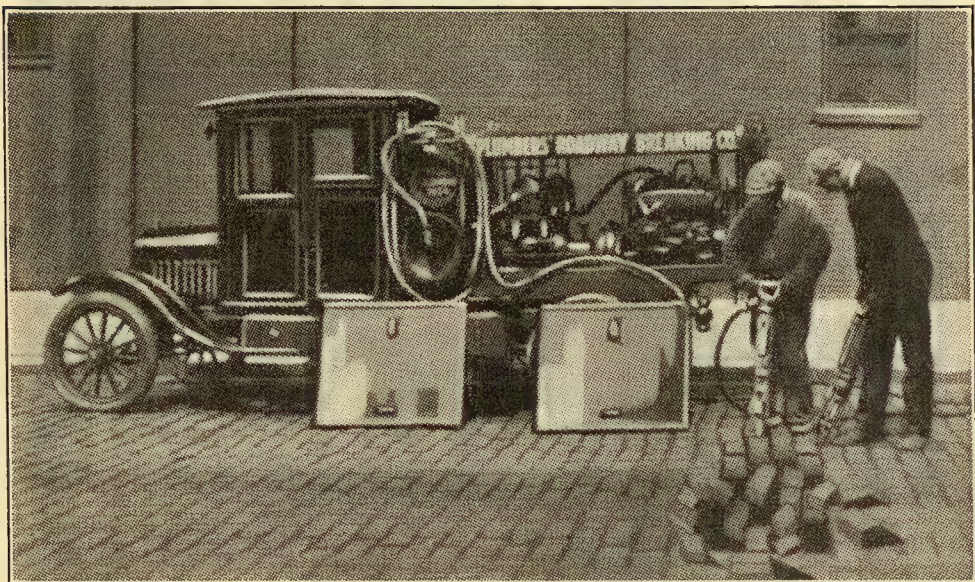
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Engineering and the Building Trades

PHILADELPHIA

Number 21

May 22, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Sales and Service Building (add.), Broad and Allegheny avenue, Philadelphia. Preliminary plans being prepared. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, Packard, Inc., care of Robert B. Parker, 3221 North Broad street, Philadelphia. Brick, steel, concrete, 100-foot frontage on Broad street.

Factory (alts. and add.), Percy and Green streets, Philadelphia. Revised plans in progress. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Atlas Electric Co., 916 Green street, Philadelphia. Brick, steel, 2 stories and basement, slag roof, electric light.

Fire Houses (5), \$300,000. Various locations, Philadelphia. Work contemplated. Project approved. Architect, W. S. Covell (city architect), City Hall Annex, Philadelphia. Vicinity of Twelfth and Rockland; Cottman and Castor; Roosevelt Boulevard, adjoining Sears & Roebuck; Seventy-second and Elmwood avenue; Stenton and Haines streets, Philadelphia.

Residence Operation (22), Roosevelt Boulevard, Whitaker and Pennway street, Philadelphia. Plans in progress. Owner will build. Architect, private plans. Owner, Barnett Lieberman, 1015 West Wingohocking street, Philadelphia. Brick, 2 stories, 15x50 feet, slag roof, hardwood floors, hot water heat, electric light, tile work.

Warehouse, Unity and Penn streets, Frankford, Philadelphia. Plans completed. Will soon take bids. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Frankford Grocery Co., J. A. Edgar, on premises.

Brick, steel, concrete, 4 stories and basement, 50x235 feet.

Residences (16), Charles and Pratt streets, Philadelphia. Owners taking sub-bids. Architect, S. H. Mercer, 1611 Walnut street, Philadelphia. Owners, Allegheny Realty Co., care of F. C. Wagner, 635 Clementine street, Philadelphia. Brick, 2 stories and basement, 16x35 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work.

Manufacturing Building (add.) to **Storage and Service Building**, Front and Erie avenue, Philadelphia. Plans about completed. Owners will be ready for bids in two weeks. Owners, Hess-Bright, care of E. Hottinger, on premises. Brick, steel, concrete, 1 and 2 stories, slag roof, cement floors, steam heat, electric light.

Gymnasium (add.), Sixty-eighth and City Line, Overbrook, Philadelphia. Ready for bids in one month. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Friends' Central School, Dr. B. L. Jones, president, on premises. Concrete block, stucco, 2 stories, 18x40 feet.

Apartment House, Walnut lane and McCallum street, Philadelphia. Owners will build and will take sub-bids. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Bryer, Oliver & Bender, 521 Snyder avenue, Philadelphia. Brick, steel, cast stone, 4 stories and basement, 53 feet 3 inches x 154 feet 8 inches, slag roof, hardwood and linoleum floors, two elevators, electric refrigeration, vapor heat, oil burner, electric light, metal lath, tile and marble work, hollow metal sash, sky-

lights and doors, fire tower, kalamein doors, door beds, kitchen and laundry equipment, two incinerators.

Residence (alts.), 32 Summit avenue, Chestnut Hill, Pa. Plans about completed. Architects will soon take general bids. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, D. D. Dodge, on premises.

Apartment House, Twenty-first and Olney avenue, Philadelphia. Owners taking sub-bids due as soon as possible. Architect, private plans. Owners, Olney Construction Co., care of A. Satz, 423 Snyder avenue, Philadelphia. Brick, steel, cast stone, 4 stories, 35x225 feet, slag roof, hardwood floors, elevators, electric light, tile work, kitchen equipment.

Bank Building (alts. and add.), Fourth and Market streets, Philadelphia. Architects taking bids due May 27th. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Central Trust & Saving Co., Clement J. Craft, on premises.

New Fire Engine and Truck Station, Eighty-second and Tinicum streets, Philadelphia. Owners taking bids due May 27th, 11 A. M. (Eastern Standard Time). City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, Bureau of Property, City Hall. Deposit, \$10, refunded. General, heating, plumbing, electric, laying of temporary drain in Laycock avenue, Eighty-second to drainage street of fire house. Deposit, \$5, refunded. Certified check, 5 per cent.

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Church and Sunday School, Midvale avenue, East of Ridge avenue, Philadelphia. Architect taking bids due May 24th, 5 P. M. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Falls of Schuylkill Baptist Church, Rev. W. J. Hays, 3635 Queen lane, Philadelphia. Stone, limestone, steel, 3 stories and basement, 62x35 feet, slag roof, cement and composition floors, plumbing (heating reserved), electric light, tile work, metal lath, excavation, cement work, ornamental iron work, carpentry and mill work, plastering, leaded glass, sprinkler system, steel sash, kalamein doors, fire doors, hardware allowance, \$550.

American Store Side Track (alts.), Callahan and Costello Property, Thirtieth and Thompson streets, Philadelphia. Architect taking bids due May 27th. Architect, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Metal covered door, excavation, concrete masonry, bond, structural steel, brick work, cement work, painting, repairs to roof.

Residence and Garage, Chestnut Hill, Pa. Architects taking bids due May 27th. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Dr. George Woodward, North American Building, Philadelphia. Stone, 2½ stories and basement, 70x50 feet, irregular, slate roof, oak and pine floors, tile and marble work, bond, ornamental iron work.

Office and Dwelling, Twenty-fifth and Moore streets, Philadelphia. Architect taking bids due May 29th. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Crean Brothers, Eighteenth and Oregon avenue, Philadelphia. Brick, stone, concrete, 2 stories and basement, 20x59 feet, slag roof, maple and pine floors, twin scales, hot water heat, electric light, tile work, metal casement sash.

Packing Plant, Darien and Willow streets, Philadelphia. Preliminary plans in progress. Engineers, Henschein & McLanen, 1637 Prairie avenue, Chicago, Ill. Owners, John Morrell & Co., 816 Noble street, Philadelphia. Brick, reinforced concrete, steel.

Power Sub-station, Contract No. 215, Juniper and Watts, South of Pine street, Philadelphia. Owners taking bids due May 23rd, 11 A. M. (Eastern Standard Time). Certified check, 5 per cent. Owners, City of Philadelphia, Department of City Transit, City Hall Annex. Demolition of existing buildings and construction of Power Sub-station No. 7, Broad Street Subway. Deposit, \$25, refunded.

Parochial School, Sixty-fifth and Chester avenue, Philadelphia. Architect taking bids due May 28th, at noon. Architect, George I. Lovatt, 220 South Sixteenth street, Philadelphia. Owners, Church of Good Shepherd, Rev. J. A. Mahon and D. Cardinal Dougherty,

Eighteenth and Summer streets, Philadelphia.

Supplies, Board of Education, Philadelphia. Owners taking bids due June 4th. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Sand, paint, paper, education and physical training supplies, tables, etc.

Residences (5), \$178,000. Nineteenth street, Seventy-fourth avenue and Penfield street, Philadelphia. Permit issued. Architect, private plans. Owners, James A. Nolen & Son, 64 East Church street, Philadelphia. Brick, 2 stories, 15x37 feet, 13x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (19), \$70,900. Ruby street, South of Woodland avenue, Philadelphia. Permit issued. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, Daniel E. Hogan, 6044 Columbia avenue, Philadelphia. Brick, 2 stories, 16x25 feet, 12x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (8), East side Seventy-eighth street, South of Lindbergh Boulevard, Philadelphia. \$28,000. Permit issued. Architect, private plans. Owner, John R. Scholtz, 8756 Eastwick avenue, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, pine floors, hot water heat, electric light.

Residences (18), \$126,000. East side Castor road, Bridge to Sanger street, Philadelphia. Permit issued. Architect, private plans. Owner, George Edel, Hillerest and Stenton avenues, Philadelphia. Brick, 2 stories, 18x25 feet, 20x30 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Storage Building, \$15,000. 7421 State street, Philadelphia. Permit issued. Architect, private plans. Owners, Janney Cylinder Co., 7425 State road, Philadelphia. Brick, 1 story, 80x121 feet.

Miscellaneous Work, Philadelphia. Owner, Department of Wharves, Dock and Ferries, No. 4 South Wharves (Chestnut street). Owner taking bids due May 31st at noon, D. S. T. A: furnish and deliver 10 length of 18 inch steel pontoon pipe, each 36 feet in length. B: replacement of wood fenders Municipal Pier, No. 16 South Delaware River. C: Alterations to Cargo doors of Pier No. 38, South Delaware River. D: Exterior painting, Pier No. 3, North, and North and South bulkhead. E: North and North and South bulkhead. E: Exterior painting, Pier No. 5 North, and North and South bulkhead. Certified check

Erection of Guard House, Durham Park, Forty-seventh and Lancaster, avenue. Plans and specifications at 117 City Hall. Owner taking bids due May 28th, 11 A. M. (S. T.) Owner, Dept. of Public Works, Bureau of City Property, City Hall, Philadelphia.

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streets, Philadelphia. Alterations to Interior of Northeast Corridor, City Hall, Phila. Owner taking bids due May 28th, City Hall (S. T.) City Architect, W. S. Covell, City Hall Annex, Philadelphia. Owner, Dept. of Public Works, Bureau of City Property, Phila. Deposit \$5.00 each.

Funeral Parlors (alts.), 2744 North 5th street, Philadelphia. Owner taking bids due as soon as possible. Architect, private plans. Owner, Elmer Rowen, 2744 North 5th street, Philadelphia. Carpentry and mill work, plate glass, painting, glazing, store front.

Residence and New Garage (alts. and add.), 30 Summit avenue, Chestnut Hill, Pa. Architect taking bids due May 25th. Architect, John J. Graham, Jr., 10 South 18th street, Philadelphia. Owner, P. Price, on premises. Stone, 1½ stories and basement, 16x30 feet, shingle roof, cement floors.

Residence (alts.), Sixth and Independence avenue, Philadelphia. Architect ready for

bids in one week. Architect, Benj. Shulman, 1722 Arch street, Philadelphia. Owner, Max Shulman, 2530 North 6th street, Philadelphia. Stone, 3 stories, general interior alterations, moving partitions, plastering, mill work, carpentry, painting.

Church and School, Green and Cliveden sts. Plans in progress (note change in location). Architect, H. D. Dagit & Son, 1322 Race street, Philadelphia. Owner, St. Magdalen Sophia R. C. Church, Rev. M. A. Crane, premises. Mansion house to be altered for rectory, building alterations for convent, building alterations for parish club house.

Sales and Service Building, 5521 Wayne avenue, Philadelphia. Architect taking bids due May 27th. Architect, Robert L. Gill, 5600 Germantown avenue, Philadelphia. Owner, B. B. Lister & Son, 45 Maplewood avenue, Phila. Brick, cast stone, steel, one story, 50x180 ft., slag roof, metal lath, tile work, cement floors, bond, ornamental iron work.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Senior High School, Front and Duncannon streets, Philadelphia. Contracts awarded. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, reinforced concrete, steel, granite. 5 stories and basement, 226x329 feet (plumbing, heating, electric separate), concrete and tile roof, maple, linoleum, cement floors, hollow tile, safety treads, metal weather strip, waterproofing and dampproofing, flagstone, wall finish, area gratings, steel sash and skylights, hollow metal sash, metal lath, steel partitions, acoustical plastering, hardware. General, McCloskey Co., 1620 Thompson street, Philadelphia, \$1,859,359. Heating, McClintock Co., 5608 Race street, Philadelphia, \$248,974. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, Philadelphia, \$116,477. Ventilating, W. P. Cameron Co., 4840 North Mascher street, Philadelphia, \$12,626. Electric, W. V. Pangborne Co., 1927 West Montgomery avenue, \$159,650.

School (add.), 6300 Rising Sun avenue, Lawndale, Pa. Contract awarded John Schnabel, Inc., Thirteenth and Chestnut streets, Philadelphia, not yet signed. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Williams' Roman Catholic Church, Rev. A. C. Grady, Lawndale, Pa. Stone, brick, steel, 3 stories and basement, bond, excavation, limestone, granite, concrete and cement

work, hollow tile, iron work, iron stairs, carpentry and mill work, hollow tile, iron work, caulking, hollow steel doors and trim, metal toilet partitions, steel sash, hollow metal windows, leaded glass, slag roof, marble, tile, terrazzo work, waterproofing, metal lath, plastering, painting, glazing.

Residence and Garage, Sixth and Cheltenham avenue, Philadelphia. Contract awarded John Schnabel, Inc., Thirteenth and Chestnut streets, Philadelphia. Architect, Clarence L. Caspary, 1701 Walnut st., Philadelphia. Owner, Hugh Hamilton, care of architect. Stone, 2½ stories, 54x40 feet, 24x24 feet, variegated slate roof, hardwood floors, hot water heat, electric light, tile work.

Residence and Garage, Seventh and Sixty-fourth avenue, Oak Lane, Philadelphia. Contract awarded Nasife & Hargesheimer, Willow Grove, Pa. Architect, Albert Dobbins, 1718 Cherry street, Philadelphia. Owner, W. H. Loesche, 5805 North Sixth street, Philadelphia. Brick, cinder block, stucco, 2½ stories, 29x42 feet (oil burners, light fixtures, gas range reserved), hot water heat, electric work, asbestos shingle roof, hardwood floors, tile work.

Bowling Alley, \$35,000. 5143 North Fifth street, Philadelphia. Contract awarded Warren Co., 1113 Cherry street, Philadelphia. Architect, private plans. Owner, B. F. Sacks, 5225 Lebanon avenue, Philadelphia. Brick,

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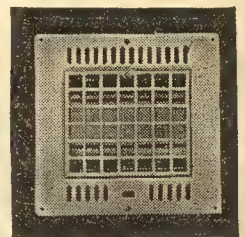
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Store Front (alts.), 8105-07 Frankford avenue, Philadelphia. Contract awarded Thomas Gagliardi, 8119 Frankford avenue, Philadelphia. Owner, Anthony Lori, on premises. General alterations.

Sales and Service Building (alts. and add.), 55 West Penn street, Philadelphia. Contract awarded A. Frunzi, 513 East High street, Philadelphia. Owners, Frunzi Brothers, on premises. Stone, steel, concrete, 1 story, 60x40 feet, slag roof, concrete floors, hot water heat, electric light, plumbing.

Residences (2), \$18,000. North side Wyoming avenue, East of K street, Philadelphia. Contract awarded George Rimer, 4842 Hawthorne street, Philadelphia. Architect, S. D. Milner, 4616 Frankford avenue, Philadelphia. Owners, De Christopher Brothers, on premises. Stone, 3 stories, 28x41 feet 6 inches, hardwood and pine floors, hot water heat, electric light.

Apartment House (alts.), \$3,800. 5217 Schuyler street, Philadelphia. Contract awarded S. S. Caspar & Co., 6239 Haverford avenue, Philadelphia. Architect, private plans. Owner, J. P. Stoughton, 928 Stephen Girard Building, Philadelphia. General alterations.

Theatre (alts.), \$3,400. 333 Market street, Philadelphia. Contract awarded T. S. Fetter, 3312 Lancaster avenue, Philadelphia. Owners, Stanley Company of America, Eleventh and Market streets, Philadelphia. General alterations.

Residence, \$3,000. North side Tomlinson road, West of Bustleton pike, Philadelphia. Contract awarded Irving Carter, 180 West Price street, Philadelphia. Architect, private plans. Owner, Pauline Markoff, on premises. Frame, 2 stories, 38x20 feet, 17x18 feet, hot air heat, electric work.

Garage (repairs), \$3,000. 1411-17 Spring Garden street, Philadelphia. Contract awarded W. W. Johnston, 1606 Swain street, Philadelphia. Architect, private plans. Owner, R. Wistar Harvey, 226 North Nineteenth street, Philadelphia. General fire repairs.

Garage, \$3,350. 357-59 East Cheltenham avenue, Philadelphia. Contract awarded I. Alterman, 5400 B street, Philadelphia. Architect, private plans. Owner, K. B. Murphy, on premises. Brick, 1 story, 53x44 feet, slag roof, cement floors, electric work.

Store and Shop, \$3,000. 6101-03 Yocum street, Philadelphia. Contract awarded Quaker City Construction Co., Sixty-third and Chester avenue, Philadelphia. Architect, private plans. Owner, T. Tartar, 6107 Yocum avenue, Philadelphia. Brick, 1 story, 41 feet x irregular, slag roof, electric light.

Garage (repairs), \$2,500. West side Weymouth street, South of Tioga street, Philadelphia. Contract awarded A. Earl Barnes, 2044 East Clementine street, Philadelphia. Architect, private plans. Owner, Fred Munn, 744 East Tioga street, Philadelphia. General fire repairs.

Residence and Store (alts.), \$2,000. 146-48 North Fifty-second street, Philadelphia. Contract awarded Thomas B. Monaghan, 2009 Sansom street, Philadelphia. Architect, private plans. Owner, John Williams, Land Title Building, Philadelphia. General alterations.

Residence, \$10,800. 2146 East Cheltenham avenue, Philadelphia. Contract awarded Harry Alterman, 273 West Somerset street, Philadelphia. Architect, private plans. Owner, L. Jaffe, on premises. Brick, 2 stories, 20x30 feet, 16x39 feet, hot water heat, electric light, hardwood and pine floors.

Residence and Store (alts.), \$5,500. Southeast Corner York road and Cheltenham avenue, Philadelphia. Contract awarded Christian Dear Sons, 227 West Roosevelt Boulevard, Philadelphia. Architect, private plans. Owner, M. A. Roeder, on premises. General alterations.

Gas Station, \$4,000. Northeast Corner Frankford avenue and Tyson street, Philadelphia. Contract awarded J. Fleischer & Son, 739 West Roosevelt Boulevard, Philadelphia. Architect, private plans. Owner, A. Harry Zullinger, Fortieth and Spruce streets, Philadelphia. Brick, 1 story, 25x40 feet, cement work, electric work.

Garage, \$2,000. 5801 North Mascher street, Philadelphia. Contract awarded Vincent C. Tunner, 5712 North Fourth street, Philadelphia. Architect, private plans. Owner, F. D. Gehlert, on premises. Brick, 1 story, 36x33 feet, slag roof, cement floors, electric work.

Bath House, \$54,460. 831-33 Ellsworth street, Philadelphia. Contract awarded Ellsworth Construction Co., 603 North Sixty-sixth street, Philadelphia. Architect, F. N. Greisler, 881 West Walnut lane, Philadelphia. Owner, H. T. Mason, Stratford, N. J. Brick, 2 stories, 62x76 feet, steam heat, electric light.

Post Office, \$9,000. Contract awarded Roberts & Castor, 18 Newton avenue, Oaklyn, N. J. Location, 4756 Richmond street, Philadelphia. Architect, private plans. Owner, Morris Wolf, 6200 Carpenter street, Philadelphia. Brick, 1 story, 18x15 feet, 27x73 feet.

Shop (add.), \$4,600. Southwest Corner Front and Olney avenue, Philadelphia. Contract awarded Charles B. Fleming, 1329 East Hewson street, Philadelphia. Architect, private plans. Owners, Grundy & Svenson, on

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premises. Brick, second story add., 34 feet 6 inches x 100 feet.

Residence and Store (alts.), \$3,500. 8126 Frankford avenue, Philadelphia. Contract awarded F. Dietrich, Jr., 1823 East Hilton street, Philadelphia. Architect, private plans. Owner, Frank Ciotti, on premises. General alterations.

Storage Building, \$2,400. 4316-18 North Sixteenth street, Philadelphia. Contract awarded John George & Son, 4329 North Fifteenth street, Philadelphia. Owner, A. L. Pfersich & Co., on premises. Brick, 1 story, 33x27 feet.

Pumping Station, \$5,600. Southwest Corner Academy and Leon streets, Philadelphia. Contract awarded F. A. Havens Co., 845 North Nineteenth street, Philadelphia. Architect, private plans. Owners, Philadelphia Gas Works, 1401 Arch street, Philadelphia. Brick, 1-story, 27x22 feet, 22x11 feet.

Residence and Store (alts.), \$2,700. Southeast Corner Sixteenth and Federal streets, Philadelphia. Contract awarded James A. Fitzgerald, 1623 Snyder avenue, Philadelphia. Architect, private plans. Owner, Charles Kelly, Atlantic City, N. J. General alterations.

Residence and Store (alts.), \$3,900. Northeast Corner Fifty-ninth and Market streets, Philadelphia. Contract awarded Anthony J. Weiss, 5131 Market street, Philadelphia. Architect, private plans. Owner, Annie G. Dasch, 623 North Sixty-third street, Philadelphia. General alterations.

Synagogue (add.), \$2,000. 4332-34 Paul street, Philadelphia. Contract awarded A. Rosenberg, 4835 Darrah street, Philadelphia. Architect, private plans. Owners, Frankford Congregation, 4332 Paul street, Philadelphia. Brick, 1 story add., 26x10 feet.

Store (alts.), 8253 Frankford avenue, Philadelphia. Contract awarded Thomas Gagliardi, 8119 Frankford avenue, Philadelphia. Owner, R. Cacci, 8253 Frankford avenue, Philadelphia. General alterations.

Miscellaneous Work. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Annsbury, G to H street, M. Masse, 3936 North Reese street, \$602.02. Brouse, Ryan, Loneq, Brocklehurst, etc., M. B. Feeney, 106 Kalos street, Philadelphia, \$1,511.28. Kerper, Summerdale to Frontenac, Marino Masse, 2926 North Reese street, Philadelphia, \$959.39. Painting, Eighty-fourth Street Bridge, A. E. Singelis, 5630 Litchfield street, Philadelphia, \$1,095.

Residence, 601 East Hermit street, Philadelphia. Contract awarded J. L. Fawley, 2121 Walnut street, Philadelphia. Owner, J. R. Fawley, on premises. Stone, 2 stories, 26x28 feet, 10x6 feet, hot water heat.

Conservatory (add.), 45 West School Lane, Germantown, Phila. Contract awarded Fred Elvidge & Son, 5409 Germantown avenue, Philadelphia. Architect, Robert L. Gill, 5600 Germantown Avenue, Philadelphia. Owner, Green Street Friends School, on premises. Stone, one story, 22x35 feet, shingle roof, pine floors, electric and heating extensions.

Pennsylvania Construction News

Residence, 3-Car Garage and Chauffeur's Quarters, \$100,000. Latches lane, South of Old Lancaster rd., Lower Merion. Plans in progress. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof, hot water heat, sun porches, 5 tile baths, solarium, wainscoting and paneling.

Residence, Union street, Kennett Square, Pa. Plans in progress. Architect, William J. Corcoran, West Chester, Pa. Owner, J. Thompson, care of architect. Brick, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile work.

School Building, South Langhorne, Bucks County, Pa. Plans about completed. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, School District of South Langhorne, Bucks County, Pa.

Residence Development, Spring Mill road and Morris avenue, Villa Nova, Pa. Plans in progress. Owners, Flanagan & Flanagan, Bryn Mawr, Pa.

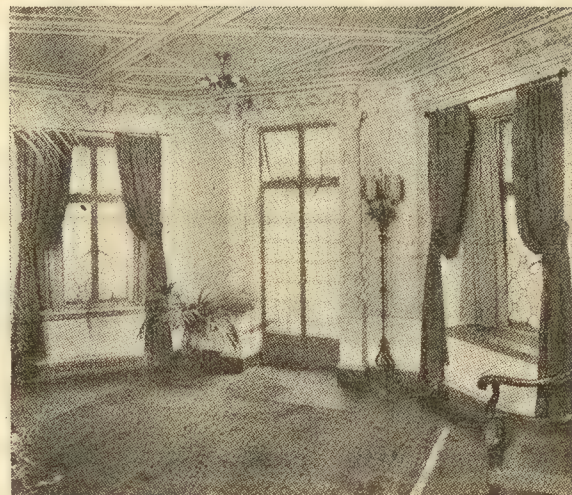
School Building, Mastersonville, Lancaster County, Pa. Sketches in progress. Architects selected. Architect, H. Raymond Heckman, 702 Baer Building, Reading, Pa. Owners, Rapho Township School District, J. W. Moyer, secretary, R. D. No. 4, Manheim, Pa. 1 story and basement, 30x83 feet, 2 rooms.

Residence and Garage, Somerton, Pa. Plans in progress. Architect, W. Ellis Groben, 1051 Sixty-ninth avenue, Philadelphia. Owner, Charles Westrich, 880 Foulkrod street, Philadelphia. Stone, frame, 2½ stories, 40x45 feet, 18x20 feet, shingle roof, hardwood, hot water heat, electric light, tile work.

Sunday School (add. to Church), Pottstown, Pa. Plans in progress. Ready for bids in about 2 weeks. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Engineer, A. S. Kepner, Pottstown, Pa. Owners, Immanuel Lutheran Church, Rev. Irwin B. Kurtz, on premises. Brick, reinforced concrete, terra cotta, brownstone, 1 story, balcony, basement,

70x100 feet, composition roof, maple floors, toilet partitions, vapor heat, electric light, kitchen equipment.

School Building, South Langhorne, Pa. Plans completed. Owners ready for bids. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, School District of South Langhorne, Bucks County, Pa.



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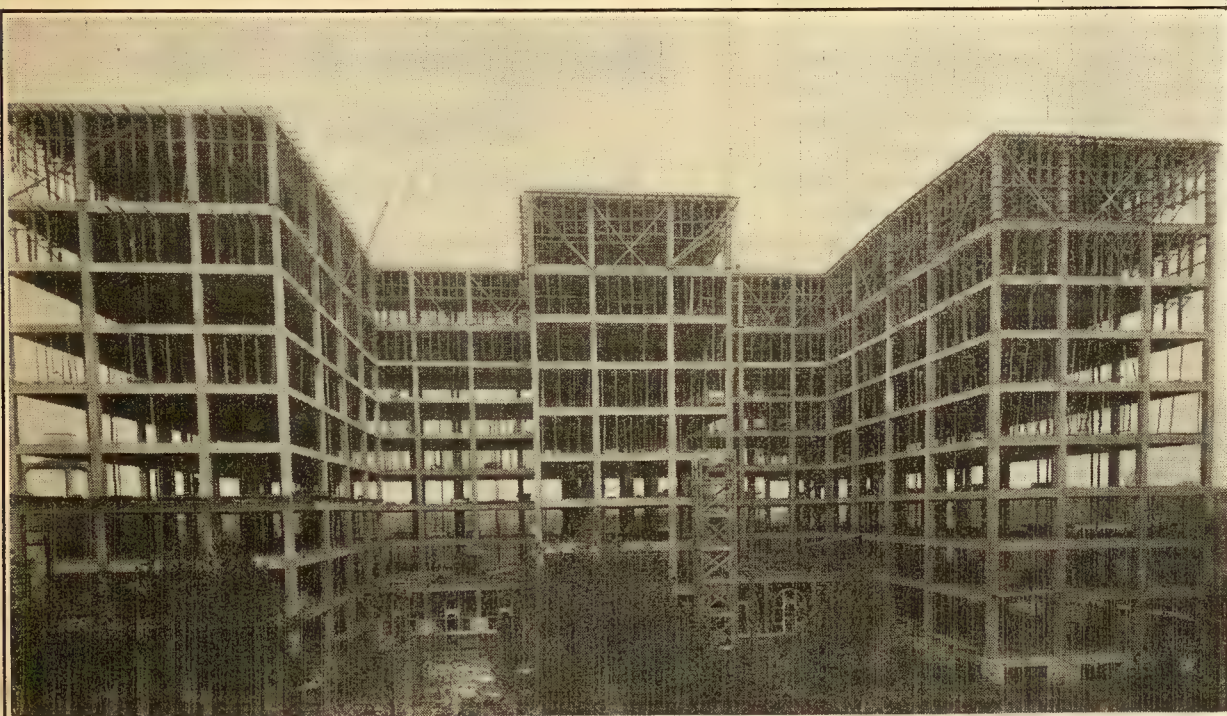
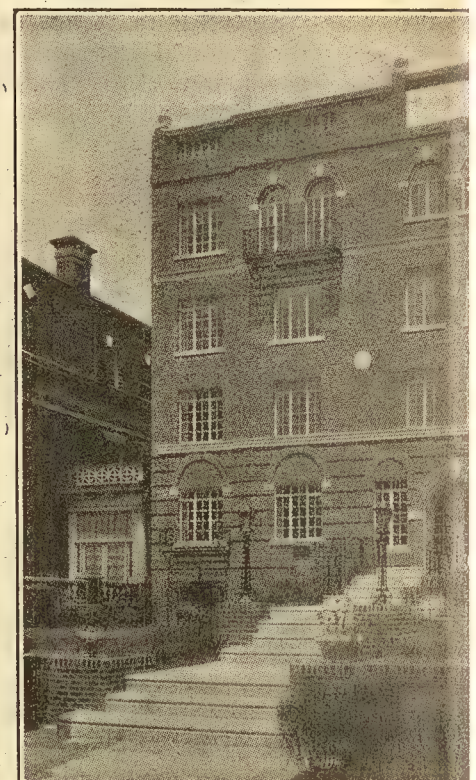
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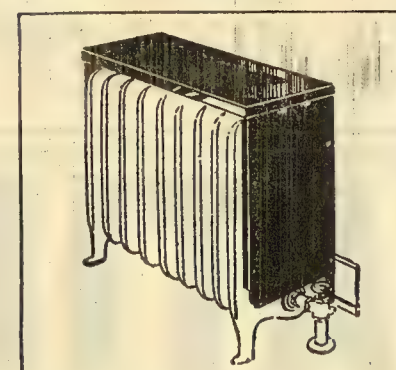
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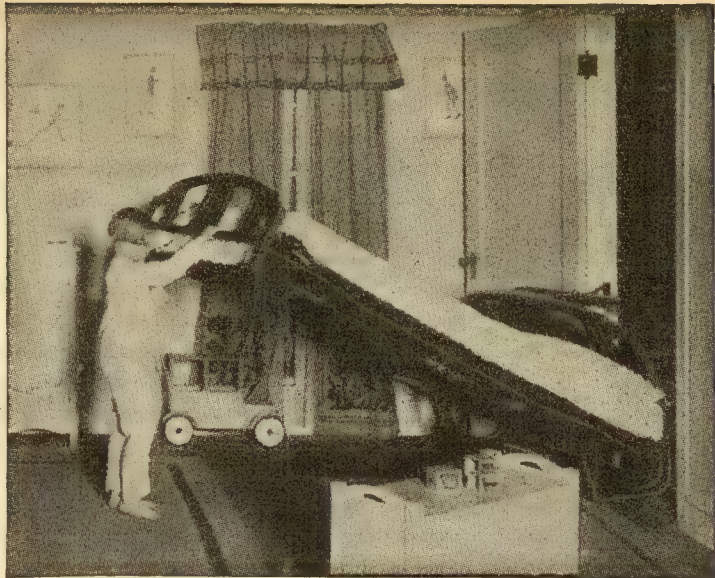
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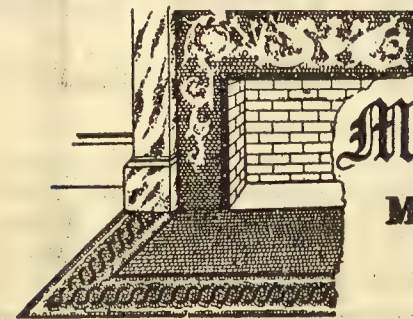
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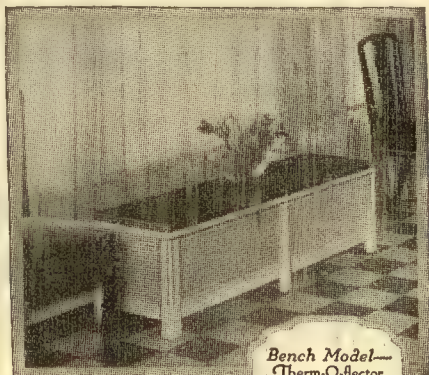
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Garage (add.), \$6,000. Market street, West Chester, Pa. Ready for bids in one week. Architect, William J. Corcoran, West Chester, Pa. Owners, Chester Valley Bus Line, on premises. Brick or hollow tile, 1 story.

Swimming Pool and Bath House, Radnor, Pa. Plans about completed. Ready for bids in a few days. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, J. S. C. Harvey, Radnor, Pa. Brick, concrete, 24x50 feet, bath house, 1 story, concrete and frame, 14x25 feet, asbestos shingle roof, concrete floors, electric light, flagstone paving.

School, West Reading, Pa. Architects will be ready for bids next week. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Roman Catholic Church, Rev. J. Wachter, Wyomissing, Pa. Brick, steel, 2 stories and basement, 120x60 feet, 45 x 70 feet, Barrett A.A. roof, linoleum and pine floors, safety treads, electric light, steel sash.

Store (alts.), Auditorium (add.), Tenth and Hamilton streets, Allentown, Pa. Owners will build. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Epstein & Levin, Allentown, Pa. Brick, structural steel, 2 stories, 120x74 feet, asphalt roof, maple floors, roof ventilators, electric light, steel sash, kalamein doors, general alterations to store.

Merion Swimming Pool (add.), Gladwyne, Pa. Plans in progress. Will be ready for bids about June 1st. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, W. L. Austin, Ardmore, Pa. Brick, steel, concrete.

Residences (12), Souderton, Montgomery County, Pa. Owner taking sub-bids. Architect, private plans. Owner, A. Dector, 133 South Twelfth street, Philadelphia. Brick, 2 stories, 16x46 feet 5 inches, tile, slate, slag roof, hardwood floors, garage in basement, hot water heat, electric light, tile work.

Office and Recreation Building, Bethlehem, Pa. Architect will be ready for bids in about two days. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owners, Castellucci & Piccirilli, 823 East Fourth street, Bethlehem, Pa. Brick, stone, 3 stories, 24x70 feet, slate and slag roof, hardwood floors, hot water heat, electric light, tile work.

Residence and Garage, Elkins Park, Pa. Plans in progress. Owner will build. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Frank N. McCormick, Elkins Park, Pa. Stone, 3 stories, 28x45 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work.

Sewage Disposal Plant and Sewage System, Eddystone, Pa. Plans completed. Owners will soon take bids. Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Eddystone, Leo J. Sharkey, president; E. E. Eckles, secretary, Eddystone, Pa.

School (add.), Eddington, Pa. Owners ready for bids due June 6th, 7 P. M. (Eastern Standard Time). Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board, A. T. Lippincott, Cornwells, Pa. Toilet room addition, Duraflex floors, fire escapes, bond. Deposit, \$10, refunded \$5. Certified check, 5 per cent.

School Building (completion), Bishopshollow road, Newtown Square, Pa. Owners taking bids due June 3rd, 3 P. M. (Daylight Saving Time). Owners, Newtown Square Township School Board, T. J. Campbell, secretary. Architect, private plans. Completion and finishing second floor, painting outside of building and basement, first floor walls and frame work.

Residence and Garage (alts. and add.), Blackwood road, Narberth, Pa. Architects taking bids due May 24th. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, Frank B. Allen, Lewis Building, Philadelphia. Stone, steel, 2½ stories and basement, 31x42 feet, shingle roof, oak and pine and cement floors, metal lath, tile work, ornamental iron work, excavation, iron work, plastering, flagstone, concrete block, steel sash, linoleum floors, caulking, weather stripping, wood deck, area gratings.

Grade School, \$60,000, Prospect Park, Pa. Owners taking bids due May 27th, 5 P. M., opened 8 P. M. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owners, Board of Education, Borough of Prospect Park, Pa. Brick, cast stone, steel, 2 stories and basement, 35x100 feet, slag roof, maple and cement floors (plumbing, heating, electric separate bids).

Residence, Allentown, Pa. Architects taking bids due June 1st. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Carl W. Appel, 140 South Fourteenth street, Allentown, Pa. Brick, limestone, 2 stories, 37x52 feet, asbestos and tile roof, oak and light stone floors, electric work, tile work, iron stair case, casement windows.

Residence and Garage and Servants' Quarters, Hilldale road, Villa Nova, Pa. Owners taking bids due May 23rd. Architect, private plans. Owners, Brown & Dulles, Villa Nova, Pa. Stone, frame, 2½ stories, shingle roof, hardwood floors, cement work, hot water heat,

electric light, tile work.

School (add.), Nether Providence, Pa. Owners taking bids due May 24th, 6.30 P. M. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Nether Providence Township School Board, Charles Lewis, Media, Pa.

Factory (add.), Third and Race streets, Sunbury, Pa. Owner, care of Martin Kent, secretary, Chamber of Commerce Building, Sunbury, Pa., taking bids due June 3rd. Architect, W. D. Shollenberger, 11-17 West Fourth street, Williamsport, Pa. Owners, Sunbury Industrial Building, Inc., Mr. J. L. Miller, Sunbury, Pa. Brick, steel, reinforced concrete, 3 stories and basement, 188x90 feet, excavation, wood piles, reinforced concrete, steel side wall sash, built-up roof, elevator, rolled steel doors, iron fence, maple floors, iron stairs, composition floors. Certified check, 5 per cent of the bid or bid bond.

High School (add.), Cornwells, Pa. Owners ready for bids due June 6th, 7 P. M. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board, A. T. Lippincott, Cornwells, Pa. Stone, concrete, block basement, limestone, granite, terra cotta, 2 stories and basement, 124x117 feet, unit system heat and ventilating, built-up roof, 12 class rooms, combination auditorium and gymnasium, terrazzo, concrete and marble floors, gypsum partitions, steel joist construction, bond. Deposit, \$20, refund \$10. Certified check, 5 per cent.

Grade Schools (2), Laurel Bend and Croyden, Pa. Low bidders on both schools. General, Jesse L. Betz, Edgely, Pa.; heating and plumbing, Barth Brothers, Cynwyd, Pa. Architect, Charles H. Jester, 141 South Fifty-second street, Philadelphia. Owners, Bristol Township School Board, E. A. Smith, Newportville, Pa.

Sanitary Sewers, Districts No. 4 and No. 7, Cheltenham Township, Pa. Low bidder: O'Neill Co., 127 East Mermaid lane, Philadelphia, \$148,000. Engineers, Albright & Mebus, 112 South Easton road, Glenside, Pa. Owners, Cheltenham Township Commissioners, Public Works Commission, Harold C. Pike, secretary, Elkins Park, Pa. Sewer, manholes and appurtenant work.

Concrete Sidewalks and Curbs, Folcroft, Pa. Owners taking bids due June 4th, 8.30 P. M. (Daylight Saving Time). Owners, Borough of Folcroft, C. R. Williams, Fire Hall, Folcroft, Pa. Details from office of secretary, 51 Primos avenue, Folcroft, Pa.

School (painting). (Interior of Junior High.) Marcus Hook, Pa. Owner taking bids June 12th, 8 P. M. Owner, School Dist. of Marcus Hook, Florie Bartow, Secretary, Marcus Hook, Pa.

Store Building, 113-15 Easton Road, Glenside, Pa. Plans in progress, ready for bids in 10 days. Architect, Sol Kaplan, 10 South 18th street, Philadelphia. Owner, Moskovitz Brothers, Glenside, Pa. Brick, limestone, or cast stone, steel frame wood joist construction, 1 story and basement, 40x80 feet, slag road, hardwood floors, vapor or steam heat, plaster, cement, metal skylights, plate glass, copper bulks.

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Contracts Awarded

Hall of Civics Building, Easton, Pa. Contract awarded James Stewart Co., 17 East Forty-second street, New York City. Architects, Warren & Wetmore, 16 East Forty-seventh street, New York. Owners, Lafayette College, Easton, Pa. Limestone, granite, steel, 2 stories and basement, 143x80 feet, steam heat, electric light, metal lath, tile, marble

and terrazzo work, cement floors, plumbing, Italian tile roof, cork floors, weather stripping, caulking, bond, waterproofing and damp-proofing.

Church, Easton, Pa. Contract awarded Peters & Marshall, 1002 Walnut street, Allentown, Pa. Architect, A. D. Chidsey, Jr., 239½ Northampton street, Easton, Pa. Owners, First Moravian Church, Rev. Robert Giering, Easton, Pa. Brick, steel, 1 story and basement, 40x100 feet, slate roof, maple floors, steam heat, electric light.

Administration Building and Boiler Room, Fourth and Chew streets, Allentown, Pa. Contract awarded George H. Hardner, Lentz Building, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Hospital, 421 Chew street, Allentown, Pa. Brick, 4 stories and basement, 42x112 feet, 2 stories, 40x70 feet, concrete slag roof, hollow tile, elevators, cast stone, brass pipe, ornamental iron, iron stairs, kalamein doors, tile, marble, terrazzo, metal lath, electric work, dampproofing, reinforced concrete.

Barn, near Edgemont, Pa. Contract awarded J. S. Cornell & Son, 1526 Cherry street, Philadelphia, who are taking sub-bids. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Frank Maurin, near Edgemont, Pa. Stone, 1 story, 63x35 feet, 20x10 feet, shingle roof, pine and cement floors; plastering.

Silk Mill, \$100,000. Bethlehem, Pa. Contract awarded William Steele & Sons, Fifteenth and Cherry streets, Philadelphia. Engineers, William Steele & Sons, Fifteenth and Cherry streets, Philadelphia. Owner, R. K. Laros, Bethlehem, Pa. Brick, steel, 3 stories and basement, steam heat, irregular in size, slag roof, cement floors, electric light, rolled steel sash.

High School, Cressona, Pa. Contract awarded Harvey Dewald, Schuylkill Haven, Pa. Heating and ventilating, Joseph Taby Co., Shamokin, Pa. Plumbing, A. L. Hadesty, Jr., Tamaqua, Pa. Electric, F. B. Allen, Tamaqua, Pa. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owners, Board of Education, Dr. J. C. Gray, president, Cressona, Pa. Fireproof, 1 story, 114x83 feet, Carey roof, maple floors, hollow tile, safety treads, waterproofing, dampproofing, iron stairs, fire doors, tile, steel sash, bond.

Residence, \$25,000. Rose Valley, Pa. Contract awarded Herbert Walton, Moylan, Pa. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owner, Edward Wright, care of architect. Stone, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile work.

Stores and Office, 144 South George street, York, Pa. Contract awarded A. B. Seifert, York, Pa. Architect, private plans. Owners, D. F. Stauffer Biscuit Co., York, Pa. Brick, granite, 3 stories, 30x80 feet, slate roof, hardwood floors, electric light, tile, marble, plate glass.

Residence and Garage, Radnor, Pa. Contract awarded Brown & Dulles, Villa Nova, Pa., who are taking sub-bids due on May 23rd. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Edmond S. Brown, 3 Chews lane, Wayne, Pa. Stone, 2½ stories, 30x100 feet, slate roof, hardwood floors, vapor heat, oil burner, electric light, tile work.

Locksley Bridge, No. 177, over Chester Creek, Pa. Contract awarded to Carl R. Camp, 10 South Eighteenth street, Philadelphia. County engineer, Media, Pa. Owners, Delaware County, G. T. Wades, Media, Pa. Reinforced girders, concrete, 65 feet clear span, 20-foot roadway, 4-foot sidewalk.

Road Work, Pennsylvania. Contracts award-

ed. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, Capitol Building, Harrisburg, Pa.

Montgomery County, R-143, Upper Merion Township, Bridgeport Borough. One course reinforced concrete. Golden Construction Co., Otis Building, Philadelphia, \$141,192.77.

Potter County, R-236, A-5574, 5380, Hebron Township. Bituminous surface treated macadam surface course. Lord & Quigley, Millers-town, Pa., \$48,917.02.

Barn (alts.), Wallingford, Pa. Contract awarded R. C. Ballinger Company, 925 Walnut street, Philadelphia. Plans by E. Kenny Crothers, Media, Pa. Owner, Spring Haven Country Club, on premises. Stone, concrete block, 2 stories, 20x50 feet, shingle roof, cement floors, tile work, ornamental iron work.

New Jersey Construction News

Store and Office (alts. and add.), Southwest Corner Federal and Day streets, Camden, N. J. Plans in progress. Architects, Lackey & Hetzel, 5 Hudson avenue, Camden, N. J. Owner, J. M. Thoirs, care of architects. Brick, cement, 3 stories, slag and wood roof, composition floors, hot water heat, electric light, skylights, dampproofing, metal bulk windows, general interior alterations.

Residences (20), Atlantic City, N. J. Sketches in progress. Architect, A. F. Amodio, Schwehm Building, Atlantic City, N. J. Owner, Henry Gold, care of architect. Brick, 2 stories, 18x26 feet, slate and Barrett roof, oak floors, unit heat, electric light, tile work.

School, West Atlantic City, N. J. Plans in progress. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owners, Board of Education of Egg Harbor Township, James Brown, secretary, McKee City, N. J. Brick, 1 story, 70x40 feet, slag roof, pine floors, roof ventilators, waterproofing, vapor heat, electric light, metal lath.

Store and Office Building, \$40,000. Sixth and Cooper streets, Camden, N. J. Plans in progress. Architect will be ready for bids middle of next week. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Northwest Cooper Corporation, care of architect. Brick, terra cotta, 2 stories, 80x36 feet, 74x36 feet, slag roof, linoleum floors, vacuum heat, oil burner, electric light, tile work, copper store fronts, painting, glazing. Will contain 19 offices and 12 stores.

Schools (3). Junior High School, Commerce and Lawrence and West avenues, Bridgeton, N. J. Vine Street School (add.); Iving School (add.), Bridgeton, N. J. Plans completed. Owners will soon take bids. Architects, Edwards & Green, Camden, N. J. Owners, Board of Education, Frank Wallace, president, Bridgeton, N. J. Stone, brick, 2 stories.

Store and Office Building, Hudson and Taylor streets, Camden, N. J. Architects will be ready for bids in two weeks. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Bleakley Brothers, 532 Federal street, Camden, N. J. Brick, steel, concrete, 2 and 3 stories, 103x138 feet, concrete, slag and wood roof, concrete floors, roof ventilators, waterproofing and dampproofing, steam heat, electric light, tile work, steel sash, skylights, ornamental iron work.

Apartment, 19 South Pennsylvania avenue, Atlantic City, N. J. Architect about ready for revised bids. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, Charles F. Wahl, 33 South Pennsylvania avenue, Atlantic City. Brick, steel, 6 stories, 150x130 feet, concrete roof, concrete, pine and composition floors, elevators, safety treads,

cast stone, waterproofing, cinder concrete block, ornamental iron, iron stairs, kalamein doors, steel sash, tile, marble, metal lath, steel.

High School and Swimming Pool, Trenton, N. J. Owners taking bids due June 5th. Architects, Ernest Sibley and L. C. Light, Patissades, N. J. Owners, Board of Education, James S. Messler, president; Robert C. Bellville, secretary, 9 South Stockton street, Trenton, N. J. Stone, steel, 3 stories, 318x214 feet, slate, built-up roof, cement, maple, oak and pine floors, linoleum and composition floors, roof ventilators, safety treads, metal window guards, waterproofing and dampproofing, acoustical plaster, ornamental iron, ornamental plaster, vault doors, kalamein doors, skylights, steel sash, tile, marble, terrazzo, metal lath (heating, plumbing and electric separate), brass grilles, wrought iron rails and grilles, caulking, blackboards, ceramic tile, quarry tile, interior slate.

Central Office, Woodbury, N. J. Architect taking bids due May 23rd. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, New Jersey Bell Telephone Co., care of Bell Telephone Co., 19th and Arch sts., Phila. Brick, limestone, steel, reinforced concrete, 2 stories and basement, 81x51 feet, concrete 7-slag roof, cement floors, waterproofing, steam heat, electric light, tile and marble work, metal lath, bond, ornamental iron work.

Armory, Woodbury, N. J. Owners taking bids due June 4th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, State of New Jersey, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Residence, King's Highway, Haddon Heights, N. J. Owner taking sub-bids. Architect, private plans. Owner, Harry R. Read, 575 Mickle street, Camden, N. J. Brick, 3 stories, 36x36 feet, slate roof, maple floors, hot water heat, electric light, tile work.

Criminal Insane Building (add.), New Jersey State Hospital, Trenton, N. J. Low bidders. Architects, Division of Architecture and

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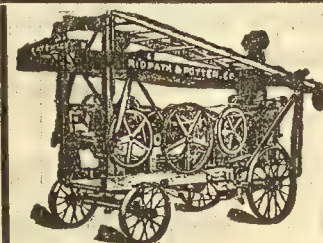
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Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, limestone, 3 stories and basement, 168x48 feet, wing 145x38 feet, concrete floors, integral and membrane waterproofing, iron stairs, kalamein doors and frames, steel shelving, ceramic tile, alberne and slate treads, painting, glazing, bluestone, steel sash, slate roof, caulking. General, C. J. Smith Construction Co., 202 Academy street, Trenton, N. J., \$174,450; General Contracting & Construction Co., 133 East Front street, Trenton, N. J., \$182,000. Heating, Walter Bittner, 2015 Hamilton avenue, Trenton, N. J., \$18,360. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$26,666. Electric, Victor Electric Co., Elizabeth, N. J., \$32,600.

Sewer System, \$200,000. Waterford Township, N. J. Plans completed. Owners will be ready for bids in one month. Engineers, Remington & Vosbury, Camden, N. J. Owners, Waterford Township Committee, Atco, N. J.

Residences (14), \$2,700 each. 107-35 North 25th street, Camden, N. J. Permit issued. Architect, private plans. Owner, Ervin Fister, Maple Shade, N. J. Brick and block, 2 stories, 16x36 feet, slag roof, pine floors, hot water heat, electric light.

New Jersey Contracts Awarded

Garage (add.), \$3,000. South side Pine street, east of Fifth street, Camden, N. J. Contract awarded Camden Construction Co., 515 Lawrence avenue, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, W. L. Hurley Co., Broadway and Pine street, Camden, N. J. Brick, one story addition, 20 feet 6 inches by 41 feet, slag roof, cement floors.

Cottage, Stone Harbor, N. J. Contract awarded Geo. Potter, Stone Harbor, N. J. Architect and Owner, J. B. Thomson, 1321 Arch street, Philadelphia. Frame, 1½ stories, 28x60 feet, shingle roof, pine floors, electric light, plumbing, wall boards.

Administration Building, 446 Bellevue avenue, Trenton, N. J. Contract awarded S. W. Mather & Son, 300 Maple avenue, Trenton, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Mercer Hospital, 446 Bellevue avenue, Trenton, N. J. Brick, steel, 5 stories, 50x126 feet, reinforced concrete, tile roof, hardwood and composition floors, (2) elevators, safety treads, ornamental plaster, steel sash, tile, marble, terrazzo, metal lath (heating, plumbing and electric separate).

Factory, Trenton, N. J. Contract awarded Karno-Smith Construction Co., Broad Street Bank Building, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Thomas Maddock's Sons Company, Ewing street, Trenton, N. J. Brick, steel, 2 stories, 100x80 feet, gypsum roof, concrete floors, steel sash, fire doors.

Residence, Merchantville, N. J. Contract awarded C. H. Paschall, 117 East Irving avenue, West Collingswood, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owner, F. M. Harneds, care of architect. Frame, 2½ stories, 40x60 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Alterations, \$5,250. 811 Broadway, Camden, N. J. Contract awarded Hensgen Brothers, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, J. Hurley, care of architect. Brick, 1 story, interior and exterior alterations.

Building (alts. and add.), \$13,000. 515 Cooper street, Camden, N. J. Contract awarded John Gibson, 521 Cooper street, Camden, N. J. Architect, Herbert N. Moffett, 104 Market street, Camden, N. J. Owners, T. Yorke Smith, 507 Federal street, Camden, N. J. Brick, 1 story, 30x31 feet, 12x50 feet, 8x32 feet, 18x20 feet, 8x34 feet, general alterations.

Office (alts. and add.), \$6,200. 1222-24 Kaighn avenue, Camden, N. J. Contract awarded Hensgen Brothers, Inc., 1140 Mechanic street, Camden, N. J. Architect, private plans. Owners, F. A. Vieser & Son, 1222 Kaighn avenue, Camden, N. J. Brick, 1 story, 20x43 feet, asphalt roof, general alterations.

Building (add. and alts.), \$5,000. 909 South Fourth street, Camden, N. J. Contract awarded Costanza Brothers, 1540 Mt. Ephraim avenue, Camden, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Lawrence Auletto, 909 South Fourth street, Camden, N. J. Brick, 3 stories, 26x20 feet, 1 story, 14x20 feet, slag roof, general alterations.

Building (alts. and add.), \$3,500. 4004 Westfield avenue, Camden, N. J. Contract awarded L. T. West, Fifth and Royden streets, Camden, N. J. Architects, private plans. Owner, Leon A. McKinning, 4004 Westfield avenue, Camden, N. J. Brick, 2 stories, 7x28 feet, slag roof, general alterations.

Building (alts.), \$3,000. 305-07-09 Wilson street, Camden, N. J. Contract awarded L. T. West, Fifth and Royden streets, Camden, N. J. Architect, private plans. Owners, North Baptist Church, Camden, N. J. Changing building into garage.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Broad Street Bank Building, Trenton, N. J.

Route 29, Section 7, Raritan-Chimney Rock, Somerset County. Karp & Karp, Phillipsburg, N. J., \$438,610.55.

Route 47, Section 2, Millville to Hesstown, Cumberland County. F. A. Canuso & Son, 804 South Twelfth street, Philadelphia, \$242,749.05.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 29, Section 2A, Oakland avenue to Stuyvesant avenue, Union Township, Union County. Joseph Ciccone, 5732 Westminster avenue, Philadelphia, \$79,990.41.

Route 37, Section 4, Toms River Relocation, Ocean County. Harrison Construction Co., Seaside Park, N. J., \$220,312.21.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 47, Section 9, Westville to Glassboro, Gloucester County. Wallace, Tozour & Wall, Millville, N. J., \$189,431.31.

Route 48, Section 22, Downtown to May's Landing, Atlantic County. Wallace, Tozour & Wall, Millville, N. J., \$99,237.44.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 39, Section 7, Oak Shade to Indian Mills, Burlington County. Riverside Concrete Co., Riverside, N. J., \$364,404.84.

Bridge, over Woodbury Creek, N. J. Contract awarded J. B. Erickson, Woodbury, N. J., \$22,989. Paving curbs and gutters awarded to Peacock, Glassboro, N. J., \$6,842.66. Owners, Gloucester County Board of Freeholders, Gloucester, N. J.

Miscellaneous Construction News

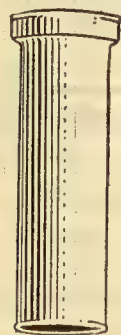
Plant, Baltimore, Md. Architect taking bids due June 1st. Architect, Henry Manley, 5 East Fifty-third street, New York City. Owners, Procter & Gamble Manufacturing Co., 906 Broadway, N. Y. Reinforced concrete, brick, cast stone, steel, slag, concrete and wood deck roof, concrete and pine floors, plumbing, electric light, excavation, hollow tile, membrane waterproofing, safety treads, area gratings, iron stairs, kalamein doors, steel sash, steel partitions, mastic floors, wood block, magnesite floors, rolled steel skylights, asphalt asbestos roofing. Power building, 102x38 feet, 2 stories; Chipso building, 3 stories and basement, 168x98 feet; bar soap building, 3 stories and basement, 309x99 feet; warehouse, 3 stories, 254x98 feet; heater building, 2 stories, 52x23 feet.

Residence and Garage, Norwalk, Conn. Architects taking bids due May 29th. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, The Clover Manufacturing Co., care of architects. Stone, 3 stories, 138x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile, marble, leaded glass, casement windows.

Residence (alts. and add.), Wilmington, Del. Plans in progress. Contract to be awarded without competition. Mature in two months. Architect, Albert Ely Ives, Delaware Trust Building, Wilmington, Del. Owner, H. F. DuPont, DuPont Building, Wilmington, Del. Stone, 2½ stories and basement, irregular size, slate roof, oak and yellow pine floors, electric light, metal lath, tile, hot water heat.

John F. Brady, Brick and Clay Products, formerly of Crozer Building, Philadelphia, has moved to the Southwest Corner Fifty-third and Market Streets, Philadelphia. Telephone, Allegheny 1939.

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WHAT'S WRONG WITH BUILDING MATERIAL ADVERTISING?

Constructive Advice for Those Who Are Seeking a Market for Any Product That Enters into Building Operations

BY ALFRED E. FOUNTAIN, JR.
Of Lyddon, Hanford & Kimball, Inc.

One great trouble with building material advertising is the unbalanced appropriation. By unbalanced appropriation, I mean one that does not recognize the relative importance of the various buying factors and consequently does not place the stress on the points that warrant it. This lack of balance is the result of an incomplete realization of what the sale of a building material means, what sort of individuals the buying factors are, how they think, how they react to advertising and why.

There are any number of manufacturers spending their entire advertising appropriations on the owner and completely ignoring both the architect and the contractor. There are others who, while recognizing both architect and contractor, apparently begrudge every dollar spent on them, and end up by using consumer copy in architectural and building trade publications. Yet, if the compilers of these appropriations would only take a little time to review the history of the industry and then consult with a few architects and builders, they would soon see what a fallacy this is.

I don't mean to underestimate the importance of the owner in the buying chain, nor do I want to overemphasize the architect and the builder. But the point I now claim and then hope to prove is that both architect and builder (I include both general and sub-contractor) are tremendously influential when it comes to determining what materials shall go into a building and, because of the peculiar structure of the industry, will always remain so.

Perhaps the best way to make this point clear is to outline first a few of the reasons for the seemingly contradictory conditions that one meets throughout the industry; then to indicate the different points of view of the three important buying factors.

Up to within thirty years ago building could hardly be spoken of as an industry in the national sense. There was in fact a group of industries, set apart by distance limitations and territorial customs, each functioning as a separate and self-contained unit in a manner best adapted to its own peculiar location.

Then came the breaking down of distance barriers and the change of outlook in all American industry with the inten-

sive sales and manufacturing methods of modern business which took this sleeping giant from the quiet streams of local enterprise and thrust him into the whirlpool of national selling. The change came so quickly that neither the personnel nor the methods of distribution have as yet been able entirely to adjust themselves.

Innovations Are Accepted Slowly

It must also be borne in mind, when viewing the seemingly complex situation that faces the national distributor of building materials, that this is the second oldest industry (food supply probably being older), and is steeped in tradition. Success in it is founded on accuracy of performance. Mistakes are costly. Consequently within the industry, innovations are accepted slowly and with caution, final acceptance coming only after repeated successful trials.

It being quite obvious that before a manufacturer can advertise and sell on a national scale he must have national distribution, the manufacturer of building materials finds himself confronted with many problems before he can adjust his product so that it has a truly national appeal.

We have, first off, climatic differences and differences in habit. It is rather difficult to sell heating systems in Florida, or wood siding, roofing and insulating material in California, when there is a predilection there for cement construction. It is also difficult to sell brass pipe in certain territories or limestone in New England where local pride demands marble or granite.

We have freight limitations. The Eastern manufacturer of bulky clay products finds it almost impossible to compete in the midwest market. This in fact is a difficulty that will keep many industries from ever becoming national advertisers unless they manufacture in more than one place or advertise as associations.

There are also local building laws that make it well nigh impossible to sell certain products on a national scale. This difficulty of course can and will be rectified although I don't think inflammable materials will ever be widely sold in urban centers.

So, while there are many kinds of buildings that are cut to a pattern, so to speak, and, in the main, are the same the country over—movie theaters, schools and the like—you can readily see that before the building material manufacturer can advertise economically on what we term a national scale, he has to adjust his product to meet some widely different conditions.

There is one thing sure, however. The manufacturer with a product of merit has before him a tremendous and growing market. It is a market in which well-planned advertising pays. There is not an outstanding success in the entire building industry that has not been predicated on advertising that understands the markets and that has been first budgeted in relation to the importance of the buying factors of the markets and then addressed to each as a separate individual.

I know of no other industry in which the individuals making up the buying factors are so clearly and distinctly grouped as in the building industry; who are so limited as to numbers and yet who control such tremendous expenditures; who are so permanently located and get-at-able that advertising waste can be reduced to a minimum; who work so closely in harmony of effort, yet talk such different languages and re-act to such different sales methods. There are four important buying factors—the owner, the architect, and the contractor and material dealer.

The Owner

Unless the building material manufacturer has a commodity of general appeal widely distributed through an organ-

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ization truly national in its scope, the problem of economic advertising to the owner or in other words the general public is a serious one. He has first to realize that the public of the building industry is in no sense the same as the public of other lines. People build buildings more seriously and cautiously than most anything else they do. They are seldom swayed by the impulse of the moment, but buy only after careful study and thought. They buy from a myriad of personal motives. They want practicability as they personally see it and are not always influenced by the lowest price.

Then there are several kinds of prospective owners each influenced and biased from different motives. There is the owner about to build a home—his dream house to live in forever. If in his mind's eye, he sees a white shingled cottage, try to sell him a stucco house!

There is the realty owner or merchant builder who erects houses to sell for profit. It doesn't take much deduction to see that he must be approached from a very different angle from that used for the owner who builds to keep.

There is the industrial owner—the corporation that, to produce profits, builds factories, warehouses, banks, theatres, etc. There is the institutional owner who controls the erection of schools, hospitals and the like—one of the greatest and most clearly defined of all of the groups.

And also there is the Government owner who builds public buildings of many kinds.

Each one of these various groups of owner individuals has to be sold from a different angle, if it is to be sold at all. Each owner is biased and urged forward or held back by his personal likes and dislikes, by his financial condition, geographic location, or purpose for which his building is intended. All of which makes a perfectly amazing chaos when analyzed and studied for an advertising campaign.

How then, you ask, can the manufacturer of modest means step into the realm of advertising and be sure that he will not waste his appropriation on this truly chaotic market we call the Owner?

Right here is where the unbalanced advertising budget can be avoided by realizing the one outstanding difference between building trades selling and all other selling. In the building industry there is a comparatively small group of individuals which exercises such a tremendous influence over the selection and use of materials that they can be said to be the dominant purchasing power of the industry. I refer here to the architect, contractor and sub-contractor.

I do not infer that this group wields an arbitrary power and is the *whole* show when it comes to the purchasing of materials, for after all its members are employed to serve. But they are also em-

ployed because of their expert knowledge of building; their word carries weight and in the last analysis they are in a position very nearly to kill the sale of any material in which they do not believe.

Those of you who have employed architects or contractors know of the constant pressure and vigilance these trained men maintain to keep you within the bounds of practicability and economy. And parenthetically, let me warn you that if you feel the urge to build coming on, be sure to engage the services of the best architectural and construction talent that you can afford. I have recently completed a summer home on rather an air tight budget and after the most careful planning and scheming on my own part, I employed both a competent architect and builder to save money for me, and they did it.

With all the owner's knowledge of materials, the architect and the builder are still the ones upon whom depend the economic and practical success of any building.

All of which being accepted as true, it is easy to see the economic fallacy of making the owner the over-dominant note in a building material campaign. It means first the tremendous cost of getting all owners under the spell of the advertising and then the danger of having it upset by not having properly sold the architect and contractor.

The Architect

It has been claimed that the architect as a class either directly specifies or influences the specification of 80 per cent. of all building materials. There are some who will claim that it is an over-optimistic estimate. I am inclined to believe it substantially correct for careful estimates credit architects with specifying one hundred and fifty million dollars worth of materials every month, or nearly two billions a year, out of a total of over three billion dollars expended annually for building materials and equipment.

Beyond this direct specification of materials there is the tremendous influence of architect-chosen materials in construction over which architects have no direct control—such as small private houses on which no architect is employed and industrial work designed by engineers. And now, with the increasing appreciation for the esthetic in construction, the architect's influence will increase rather than diminish. I believe that our buildings of tomorrow will be entirely designed and decorated by architecturally trained minds.

The interesting thing about architects, from the viewpoint of the seller of building materials, is the fact that there are so few of them. Information from many different sources reveals the astonishing

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fact that there are not over 10,000 architectural offices in the entire country and that not over 20,000 men are employed by these offices.

Here then is a relatively small group of individuals either directly controlling or influencing the specification of a major part of all building material. And this group is so compact, exactly located, similar in outlook, ideals and aims that it can be studied as a group and advertised to as a group.

Does it not seem logical that from the viewpoint of sheer economics, the architect is entitled to a more important place in the advertising budget than he usually gets?

The Contractor and the Material Dealer

Contractors and material dealers constitute a group of less than 200,000 recognized and established concerns whose importance in the selection of building materials it is dangerous to discount. While primarily they function as middle-men or purveyors of material, they are the practical field men of the industry. While an owner may know, even in considerable detail, what he wants in the way of construction, and the architect may be able to interpret that need both practically and esthetically, it is the contractor who must put it in terms of actual construction. Thus, in most architectural offices, it is the usual practice to consult with friendly contractors about the practical details of construction.

It is right at this point that most successful manufacturers of building materials make their most effective sales efforts. Many of them do their own erection or control it through close relationship with contractors and it is as *experts* in construction that they are consulted by architects and owners about the practical details of their work.

To sum up the whole situation, it seems to me that when advertising programs for building materials are being made, it would be economically sound to consider each and every purchasing influence and place it in its relative position and work it for all that it is worth. It is true that

the order of importance of the various influences will vary with different products. In the case of entirely decorative material, such as wall covering or lighting fixtures, the owner will probably be more important than the architect. But in the selection of rough structural materials and in many of the finished structural products, such as roofing, floors, etc., the architect's influence will be very great.

Each year the individual advertiser is confronted with the problem of selling over a half million new owners who come into the market. Besides this, he must either sell or keep sold the many millions who are already owners and present a tremendous replacement market. As I have indicated, this vast group is in reality not a group, but a tremendous number of individuals who present an imposing problem to the limited budget.

Against this, the advertiser has a small group of architects, contractors and dealers, mostly actuated by similar impulses, whom he can easily turn into salesmen for himself.

I have seen many small appropriations produce wonderful successes because of a careful study and analysis of the relative importance of the various buying influences has been made. And I have seen great appropriations turn into dismal failures.

The building material manufacturer who invests money in selling the architect and contractor can't go wrong because he can't do business without these men. But he can easily repeat the terrible mistake made recently by one ill-advised advertiser who spent a fortune to acquaint the "man in the street" with his product when statistics proved that only one man in every 10,000 "in the street" would ever have the slightest chance to purchase this product.

A study of conflagrations reveals to some extent the fire-resistive qualities of building materials, but sometimes results are misleading because of uncertain conditions incident to fire out of control. Formerly after each big fire, manufacturers produced new forms of roofing,

partitions, and other structural materials which they believed fireproof until another conflagration showed the fallacy of the claim. It is no longer necessary to depend upon the uncertainty of conflagration conditions for tests. Severe fire conditions under control can now be produced, thus permitting expert observation of tests to determine the quality of various building materials before they are actually employed. The Underwriters' Laboratories has developed this work to a very high degree and today makes tests of materials including a great variety of products of hundreds of manufacturers. Upon approval of the product a label indicating compliance with the standard is supplied. Materials or articles tested in this way include roof coverings, wired glass windows, fire doors and shutters, electrical appliances of all kinds, automatic sprinklers and numerous other manufactured goods for the control of fire hazards.

Another agency that makes tests of various materials used in the building industry is the United States Bureau of Standards.

The work of influencing manufacturers to have their products tested and listed before they are used is of great importance. Nevertheless, although they may be tested and labelled, very little benefit will result if they are not properly installed. It is the business of general contractors, sub-contractors and construction laborers to see that the products are so used that full benefit will accrue. In this respect the manufacturers themselves may exert a strong influence. It is not sufficient for them to secure a customer; they must see that the product is properly installed. If manufacturers would insist that their product be used only in connection with standard construction in order to make buildings actually fire-resistive and well-protected, they would advertise not alone the possibility of fire-safe construction, but would inaugurate a program for the conservation of manufactured resources which would be of considerable national importance.

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An example of this comes to mind: Manufacturers of sprinkler heads insist that all equipment be erected under their direction, to avoid, as far as possible, failure of the device to function because of improper installation. Many other manufacturers are jealous of the reputation of their products and where it is not practicable personally to supervise their installation they issue detailed instructions on the subject.

It is thus evident that the fire-safety of the future is in the hands of architects and the building industry, assisted by the manufacturers of fire-resistive equipment and materials. There is little doubt that there always will be fires that can be attributed to carelessness or lack of foresight, but when all buildings are constructed so that flames cannot spread far from the place of origin before the fire department arrives, the problem of fire-safety will to a large extent be solved. Speed that day!—*Safeguarding America Against Fire.*

MACHINE USES BLOWERS TO DRY NEW BUILDINGS

Heated Air Driven at High Pressure
Better than Natural Method

Artificial drying, which has been used successfully for years in many lines of industry to speed up output and improve product, is to be applied on a big scale for the thorough and rapid drying of new buildings.

Fundamentally, the principle involves the use of powerful fan blowers which drive heated air at high pressure through pipes to all rooms and because of the pressure, reaches all parts and quickly dries the structure. Building engineers who are conducting tests of this method declare that it produces a greater hardness of plaster after four days than naturally dried plaster has after two years. The machine also is adaptable to supplying temporary heat during building construction.

Tests are being conducted at Langdell Hall, Harvard University, where a large addition has been started. The new technique for drying buildings was developed in Germany and a prominent firm of industrial engineers in Boston is directing the test in an effort to verify, in this country, claims made by the Deuba Building Drying Corporation of Hanover, Germany. With this end in view one of the Deuba machines has been imported and set up. A corporation has been organized with a view to taking over the American patent rights if the tests prove satisfactory.

The machine is mounted on wheels, but of a type that will not be retained if the company decides to operate. The

iron pipes, which shoot the heat into the building are in sections and for transportation are fastened on top of the housing. Unlike salamanders, the Deuba does its work outside the building, using the pipes to convey the heat under pressure, by means of the blowers, from the air heater. The machine burns coke and a motor operates the fans.

Charles T. Holloway, 2nd, president of a large building supply firm in Boston, who has been operating the machine at Langdell Hall, has demonstrated it before leading architects and contractors in Greater Boston. They were interested in viewing it in action and later will be anxious to learn of the results of the test, Mr. Holloway says:

"Analyses of the gases in three rooms; one the entrance room, two, the middle room and, three, the room from which the air escapes, show a constantly decreasing amount of carbon dioxide from the air, changes it to calcium carbonate and frees water which, as a result of the hot air, changes into water vapor and escapes through the masonry. The excess water in the plaster evaporates according to the temperature of the air.

"The machine which produces these results gives a greater hardness of plaster after 4 days than naturally dried plaster has after 2 years, and consists solely of a fire grate which burns between 60 and 80 pounds of coke an hour through which air is driven by fan blowers operated by an electric, gasoline or Diesel motor. The temperature of the air blast can be maintained between 30 and 100 degrees centigrade by regulating devices on the machine. It is possible to dry out any building in from three to four days with a battery of these machines."

Building contractors, representing an annual aggregate buying power of approximately \$3,000,000,000, meeting quietly at Cleveland last week, took steps toward the elimination of unethical buying practices in the building industry, it was announced today by the Associated General Contractors of America.

Characterizing many of the current policies of both sellers and buyers of building materials and services as ruinous to the industry as well as detrimental to the public, the conference called by the Allied Construction Industries Committee laid plans for the nation wide establishment of standard credit policies aimed to relieve the industry of the tremendous burden of bad accounts which it was claimed were as injurious to legitimate contractor buyers as to sellers.

Compilations of itemized bad accounts in Detroit alone reveal \$4,000,000 in unpaid balances owed by contractors announced George B. Walbridge, general contractor of that city, who is chairman

of the national allied committee and who heads the credit rehabilitation bureau there.

This figure, claimed Mr. Walbridge, by no means represents the total of overdue accounts in the Detroit industry it being estimated that an overdue total of \$20,000,000 can be found there.

Similar estimates were presented from other cities where the plan for stabilizing credit in the construction industry has made progress. It was reported by Daniel W. Cauley, Manager of the Cleveland Branch of the National Association of Credit Men that he had data proving the annual loss in bad accounts amounted to \$1,000,000 in his city annually because of loose credit practices which can be remedied through the plan being applied elsewhere.

The credit stabilization plan, said to represent the first move ever made by buyers to insist that sellers stiffen up their credit terms, was reported as under development in twenty cities. Plans were laid to immediately extend the plan to an additional score of communities and to accelerate the work already started.

The contractors gathered at Cleveland, representing thirteen national associations of general and subcontractors, likewise formulated standard rules of fair practice aimed to eliminate unfair backcharges against subcontractors, the peddling and cutting of bids by buyers and sellers, forced acceptance of designated insurance carriers and other matters involving ethical business relationships.

Plans were laid to hold a trade practice conference with the Federal Trade Commission in order that formulation and enforcement of these and additional rules of fair practice may be made effectively.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A ten spot insures it fifty-two times in the course of a year.

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

Reference Directory for Architects, Builders and Owners

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Metalweld, Inc. ...26th and Hunting Park Ave., Phila.

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Philadelphia Compressor Rental Co., Inc.,
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Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co.20th and Venango Sts., Phila.

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537-549 S. 2nd St., Camden, N. J.

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DeGiuseppe Art Marble Co.818 N. 48th St., Phila.

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BRICK

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Ketcham, O. W.121 N. 18th St., Phila.

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Mitchell Bros.2125 Race St., Phila.
John Schnabel, Inc.,
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Warner Company1518 Walnut St., Phila.

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Jules H. Rosenberg2313 Walnut St., Phila.

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New Jersey Cast Stone Co.Vineland, N. J.

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Massiah, Frederick. Juniper and Cypress Sts., Phila.

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CONCRETE WORK

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CORK TILE

Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.

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Anti-Hydro Waterproofing Co.,
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Barnett Bingswanger, Jr.829 N. 3rd St., Phila.
Hydroseal Waterproofing Co.829 N. 3rd St., Phila.

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ELECTRIC HEATERS

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ELECTRICAL REFRIGERATION

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ELECTRIC SAWS

Crowe Safety Saw Sales Corp.,
515 Real Estate Trust Bldg., Phila.

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Selby, Battersby & Co.810 Noble St., Phila.

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Selby, Battersby & Co.810 Noble St., Phila.

FLOORING (Rubber Tile)

Hamilton Rubber Mfg. Co.Lafayette Bldg., Phila.
Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.
Selby, Battersby & Co.810 Noble St., Phila.

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Simpson-Anderson Co.Widener Bldg., Phila.
Stokes, Packard, Houghton & Smith,
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IRON AND STEEL (Structural and Ornamental)

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Lederle, Robt. B., & Co.Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co.2500 Duncan St., Phila.
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Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.
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Franklin Tile & Mosaic Co.1344 Ellsworth St., Phila.
Italian Marble Mosaic Co.433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
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Roman Mosaic & Tile Co.435 Green St., Phila.

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Foundation & Construction Co.1320 Race St., Phila.

PLASTER (Colored)

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PLASTERERS

Keen Bros.Merchantville, N. J.

PLASTERING (Ornamental)

DeGiuseppe Art Marble Co.818 N. 48th St., Phila.

PORCH ENCLOSURES

Malia, Thos. J.226-32 W. Mentor St., Phila.

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REFRIGERATORS

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Milton Mfg. Co.Milton, Pa.
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Malia, Thos. J.226-32 W. Mentor St., Phila.

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Warren-Ehret Co.Luzerne and "E" St., Phila.

ROOFING MATERIALS

MacGarvie, James B.Magnolia, N. J.
John Nacey Co.7254 Paschall Ave., Phila.
Warren-Ehret Co.Luzerne and "E" St., Phila.

ROOFING SLATE

Chapman Slate Co.Bethlehem, Pa.

ROOFING TILE

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SAFETY TREADS (Grating)

Kerlow Steel Flooring Co.371 Drexel Bldg., Phila.

SCAFFOLDING

Patent Scaffolding Co.2835 Bridge St., Phila.

SCREENS (Fly)

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Philadelphia Septic Tank Co.,
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SEWER PIPE

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SHEET METAL WORK (General)

Strandwitz & Scott, Inc.,
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Pearce Fireproof Co.1911 N. 2nd St., Phila.

SHELVING (Steel)

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SHOWER CURTAINS

Phila. Blanket Co., Inc.1015 N. Bodine St., Phila.

SOUNDINGS

Ridpath & Potter Co.,
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STEEL SASH

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STONE

St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

STUCCO MANUFACTURERS

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Mayflower Stucco Co.,
Chestnut Hill, Phila., and Plymouth Meeting, Pa.

SURETY BONDS

Insurance Co. of North America1600 Arch St.
Simpson-Anderson Co.Widener Bldg., Phila.
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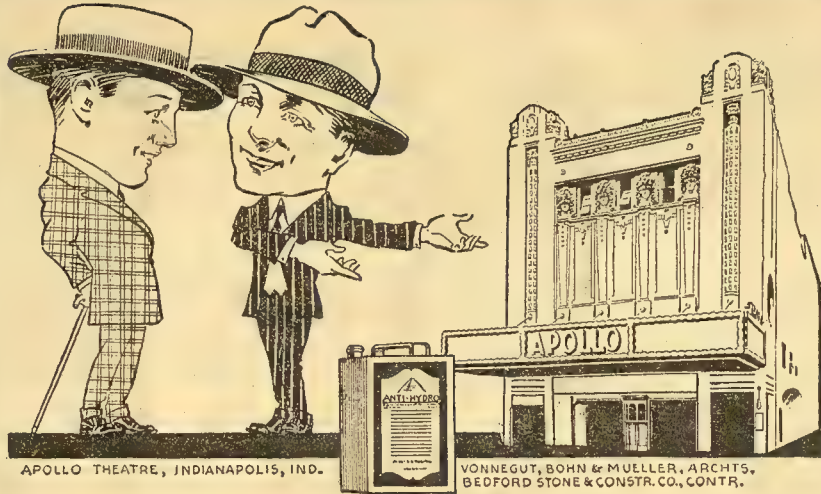
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May 29, 1929

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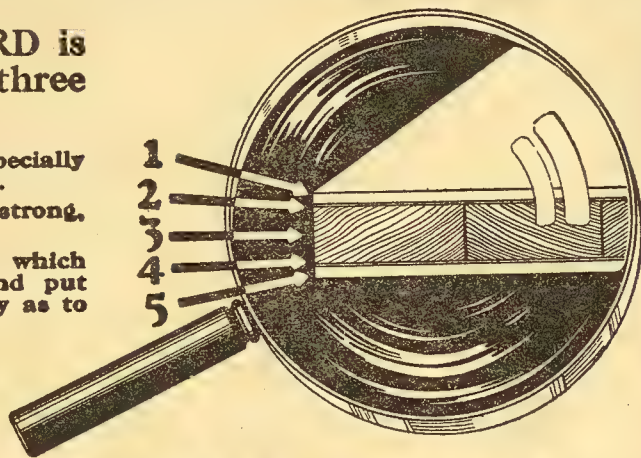
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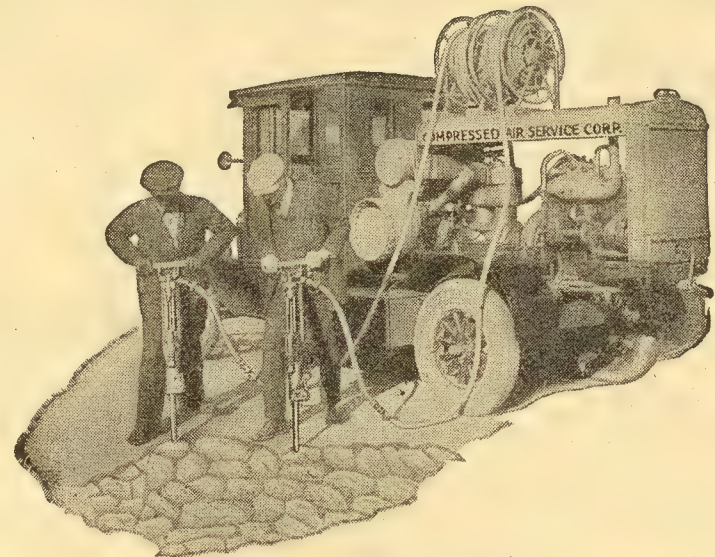
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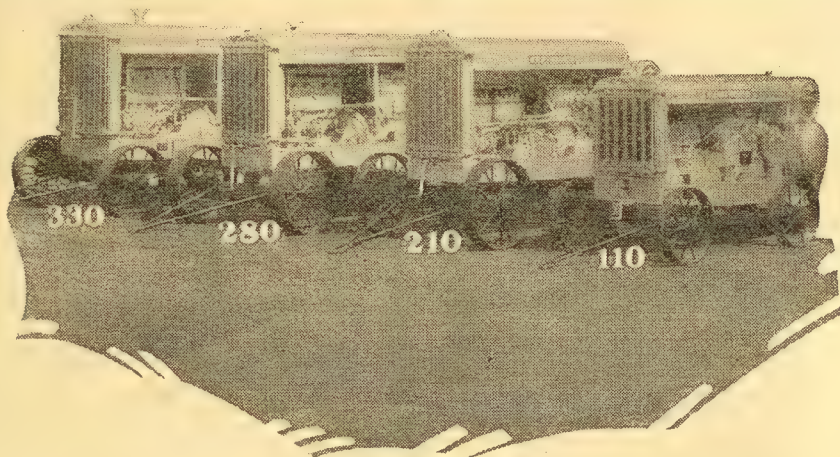
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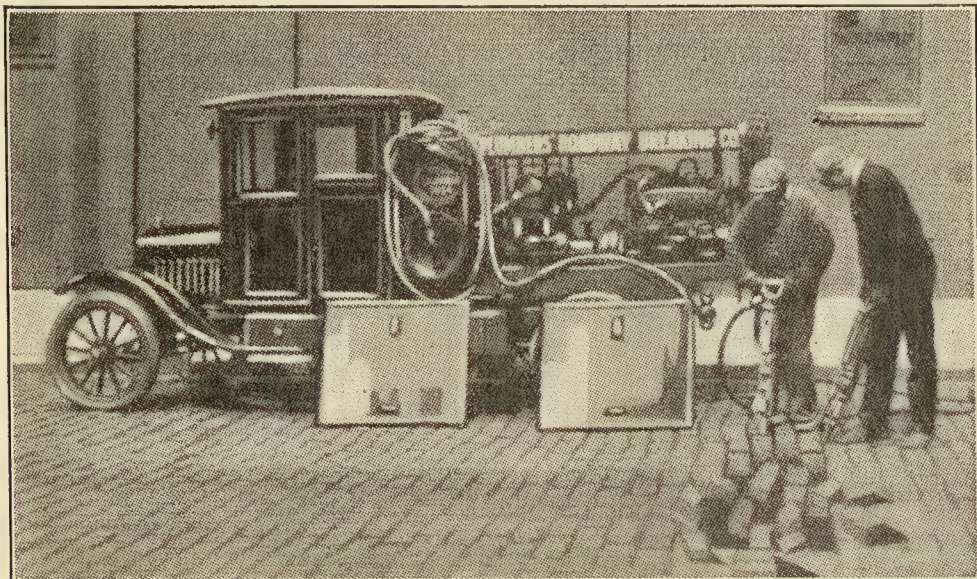
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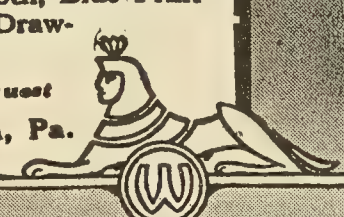
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 22

Engineering and the Building Trades

PHILADELPHIA

May 29, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office Renovation, 1326 Walnut street, Philadelphia. Plans in progress. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owner, name withheld.

Garage (add.), 9734 Bustleton pike, Philadelphia. Revising plans. Architect, private plans. Owner, John Barber, on premises. Brick, cinder block, 1 story, 30x50 feet, slag roof, cement floors, electric light, steel sash.

Store (alts.), 1207 Locust street, Philadelphia. Plans completed. Engineer ready for general bids. Engineer, Louis J. Cohen, 519 Real Estate Building, Philadelphia. Owner, name withheld. Brick, steel, 3 stories, 15x54 feet, slag roof, maple floors, vacuum heat, oil burner, electric light, interior and exterior work, cast stone.

School Building (add.), City Line and Sixty-eighth avenue, Overbrook, Philadelphia. Ready for bids in one week. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Friends' Central, Dr. Barclay Jones, on premises. Brick, stone, steel.

Residence (alts. and add.) to Doctor's Office, Central Philadelphia. Plans completed. Architects ready for general bids. Architects, Tunis & Baker, 1600 Arch street, Philadelphia. Owner, name withheld. Interior alterations, brick add., hot water heat, electric light, tile work, plumbing, slag roof, hardwood and tile floors, concrete and cement work, structural steel.

Apartment House, Kenwyn and Oxford avenues, Philadelphia. Owners ready for general bids. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Kenwyn Apartment Co., care of A. I.

Fink, Land Title Building, Philadelphia. Brick, steel, 4 stories, electric light, tile work, hardwood floors.

Store Building, 3539 Germantown avenue, Philadelphia. Architect taking sub-bids due at once on revised plans. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Jacob Kahn, 820 West Roosevelt Boulevard, Philadelphia. Brick, 1 story, 20x135 feet, slag roof, pine floors, hot water heat, electric light, tile work, metal skylights.

Residences (52), Charles and Pratt streets, Philadelphia. Owners taking sub-bids on first unit of 16. Architect, S. H. Mercer, 1611 Walnut street, Philadelphia. Owners, Allegheny Realty Co., care of F. C. Wagner, 635 Clementine street. Brick, 2 stories and basement, 16x35 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. (Note number of houses.)

Apartment House, Northeast Corner Fourth and Chew streets, Philadelphia. Conley Construction Co., 430 West Chew street, Philadelphia, taking sub-bids. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Morris Koslovsky, 430 West Chew street, Philadelphia. Brick, steel, cast stone, 4 stories and basement, 100x55 feet, elevator, fire tower, slag roof, hardwood and linoleum floors, electric refrigerator, vapor heat, oil burner, metal lath, tile and marble work, hollow metal sash, skylights and doors, fire tower, kalamein doors, door beds, kitchen and laundry equipment, incinerator.

Church, 6100 Block, Godfrey avenue, Philadelphia. Architect, A. N. Dobbins, 1716 Arch street, Philadelphia. Owners, Corinthian Bap-

tist Church, W. H. Hopkins, 6150 North Norwood st., Phila. Stone, cast stone, 1 story, 42x64 ft., slate roof, pine floors, hot water heat, electric light, plumbing. Nasife & Hargesheimer, Willow Grove, Pa., taking sub-bids.

Contract No. 215, Subway Sub-station Building No. 7, Juniper street, South of Pine street, Philadelphia. Owners taking bids due May 31st, 11 A. M. (Eastern Standard Time). Architect, private plans. Owners, Department of City Transit, City Hall Annex, Philadelphia. Brick, steel, terra cotta, 2 stories and basement, 80x80 feet (plumbing, electric separate contract), excavation, concrete and cement work, brick work, marble work, metal lath, plastering, steel and iron work, steel sash and doors, gypsum and slag roof, carpentry and mill work, hollow metal doors.

Residence (alts. and add.), 131 Pelham road, Germantown, Philadelphia. Plans ready for bidders. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, A. C. Jackson, 6445 Greene street, Philadelphia.

Sales and Service Station, 4227 Chestnut street, Philadelphia. Architect taking bids due June 1st at noon. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, West Philadelphia Motor Co., on premises. Brick, limestone, steel, 2 stories and basement, 65x215 feet, slag roof, cement floors, steam heat, electric light, tile work, metal lath, bond, ornamental iron work.

Restaurant Building, 5541-43 North Fifth street, Philadelphia. Architect taking bids due June 3rd at noon. Architect, R. B. Beneker, 1601 Chestnut street, Philadelphia. Owners, Horn & Hardart Baking Co., 208

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Bank and Office Building, Cheltenham avenue, West of Germantown avenue, Philadelphia. Architects taking bids due June 4th. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Bank of Philadelphia & Trust Company, Broad and Diamond streets, Philadelphia. Brick, limestone, steel, 14 stories and basement, 60x99 feet, reinforced concrete work, demolition, ornamental terra cotta, cement work, rubber tile flooring, rolled steel skylights, metal partitions, kalamein doors, tin-clad doors, bronze work, steel counters, maple floors, hollow metal doors, carpentry and mill work, cabinet work, caulking, dampproofing, metal lath, plastering, imitation travertine, marble and terrazzo, concrete roof, painting, glazing, bond, area gratings, excavation, iron stairs, R. I. W. waterproofing, Barrett specification roof, roof ventilators, steel sash, casement windows.

Apartment House, \$65,000. Southwest Corner Fortieth and Baltimore avenue, Philadelphia. Permit issued. Architect, Charles F. Schaef, 11 South Sixteenth street, Philadelphia. Owner, Jacob Gorchov, 4116 Girard avenue, Philadelphia. Brick, 4 stories, 48x123 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (8), \$32,500. North side Seville street, East of Ridge avenue, Philadelphia. Permit issued. Owner, Andrew Pinkerton, 523 East Walnut Lane, Philadelphia. Brick, 2 stories, 15x27 feet, 12x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Apartment House, \$180,000. 6608 North Twelfth street, Philadelphia. Permit issued. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owners, Oak Lane Arms Construction Co., 773 Smylie road, Philadelphia. Brick, 4 stories, 60x172 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Garage, \$2,500. 20 East Palmer street, Philadelphia. Permit issued. Architect, private plans. Owner, William Wolstenholm, 22 East Palmer street, Philadelphia. Brick, 1 story, 24x50 feet, slag roof, cement floors, electric work.

Residence and Store (alts.), \$2,000. 6643 Woodland avenue, Philadelphia. Permit issued. Architect, private plans. Owner, John Nugent, 6606 Woodland avenue, Philadelphia. General alterations.

Gas Station, \$2,800. Northwest Corner Broad and Bott streets, Philadelphia. Permit issued. Owners, Crew-Levick Co., 219 North Broad street, Philadelphia. Brick, 1 story, 13x16 feet.

Stores (add.), \$5,000. 6445-47 Woodland avenue, Philadelphia. Permit issued. Architect, private plans. Owner, J. D. Lengel, Wayne, Pa. Brick, 1 story add., 30x30 feet.

Bank (alts.), \$4,000. Northwest Corner Frankford avenue and Arrott street, Philadelphia. Permit issued. Owners, Philadelphia Rapid Transit Co., Broad and Locust streets, Philadelphia. General alterations.

Stores and Residences (2), \$16,000. Store and Apartment, \$16,000. Frankford avenue and Princeton street, Philadelphia. Permit issued. Owner, Fred E. Rowe, Frankford avenue and Cottman street, Philadelphia. Architect, Bailey Mercer, 1606 Walnut street, Philadelphia. Brick, 3 stories, 33x75 feet, and 2 stories, 18x57 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (25), \$101,000. Teesdale street, East of Walker street, Philadelphia. Permit issued. Owners, Spear & Sinclair, 133 South Twelfth street, Philadelphia. Brick, 2 stories, 15x27 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Crane Runway, \$4,500. 1322 North Thirtieth street, Philadelphia. Permit issued. Owners, Caldos S. & I. Co., on premises. Steel.

Residence and Store (add.), 8016 Frankford avenue, Philadelphia, \$3,000. Permit issued. Architect, private plans. Owner, Philip Rosenthal, 8018 Frankford avenue, Philadelphia. Brick, 2 stories add., 18x51 feet.

Miscellaneous Work, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Owners taking bids due June 4th at noon. Certified check, 5 per cent. Tearing down dwellings at 1519-25 Arch street, Philadelphia, painting inside, repairs and painting roof, new slag roof, repairs to cement pavements, sheet iron work enclosures, electric, plumbing materials, mill work, flood light and lighting of entrance, linoleum, etc. Various schools.

Miscellaneous Work, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia. Owners taking bids due June 4th, 11 A. M. (Eastern Standard Time). Certified check, 5 per cent. Specifications at 1117 Reed street, Philadelphia, for furnishing and erecting 718 more or less posts with anchors and 1,437 more or less cross arms, 1,400 more or less porcelain enameled traffic arrow signs and brackets, 5,200 more or less street signs.

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Miscellaneous Work. Low bidders. Owners, Department of Public Works, Bureau of Engineers, 216 City Hall, Philadelphia. Hartel, Glendale, Bradford, Horrocks streets, Vattieri & Pontorelli, 523 Rising Sun avenue, Philadelphia, \$123,200. Wissinoming, Unruh to Cottman, A. J. Henderson, Washington lane and East Chew street, Philadelphia, \$16,667.30. Upper Frankford Creek Low Level Col. Sewer, Mazzola & Mariana, 739 South Seventh street, Philadelphia, \$250,999. Rhawn street, over Pennypack Creek, F. A. Canuso & Son, 804 South Twelfth street, Philadelphia, \$56,899.75. Twentieth, Twenty-first, Twenty-second, Twenty-third streets, Market to Arch streets, O'Neill Construction Co., 127 East Mermaid lane, Philadelphia, \$313,126.55.

Miscellaneous Work. Low bidders. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Alma, Bleigh, Elgin, Castor, Cottman, etc., Morrissey Brothers, 4336 North Marshall street, Philadelphia, \$2,578.95. Twentieth, Olney to Belfield, James F. Malloy, Point Breeze and Mifflin street, \$4,510.36. Hobart, Melvin, Wanamaker, Colman, Malvern, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$9,673.26. Catherine, Broad to Sixth street, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$49,879.30. Catherine, Gray's Ferry to Broad street, Eastern Asphalt Co., Pennsylvania Building, \$27,299.50. Hazel, Sixtieth, Sixty-second, Larchwood, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$8,360.38. Intersection Conlyn and Woodstock, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$1,391.67. Oakford, Twenty-second to Twenty-third, Municipal Paving Co., Second and Wingohocking streets, \$4,985.23. Poplar, Ridge, Twentieth, Twenty-fourth, Ringgold, Municipal Paving Co., Second and Wingohocking street, \$16,970.25. Race, Vine, Twentieth, Twenty-first, Twenty-second, Twenty-third, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$11,225.95. Reed street, Fifteenth to Seventeenth, Montgomery Paving Co., Harrison Building, Philadelphia, \$9,981.35. Walnut, Sixty-first to Sixty-second, Suburban Construction Co., Ardmore, Pa., \$19,479.55. Eighth street, Wolf to Ritner street, Municipal Paving Co., Second and Wingohocking streets, \$5,389.06. Forty-first, Market to Lancaster avenue, Suburban Construction Co., Ardmore, Pa., \$46,689.20. Allegheny, Twenty-second to Ridge, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$63,943. Bainbridge, Front to Passyunk, Atlas Paving Co., 317 South Sixth street, Philadelphia, \$20,127.10. Richmond, Erie, Orthodox, Wheatsheaf, Juniata, G. G. Centrone, Bailey Building, Philadelphia, \$46,438.30. Furnish and deliver ready-mixed con-

crete, Warner Co., 1518 Walnut street, Philadelphia, \$2,000.

Store and Residence (alts.), 605 South 6th street, Philadelphia. Architect taking bids. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Margaret Shapiro, care J. K. Miller, Northeast corner Broad and Sansom streets. General interior alterations, plumbing, heating, electric work.

Store Building, Torresdale and O streets, Philadelphia. Architect taking bids due June 3rd at noon. Architect, Silverman & Levy, 13th and Chestnut streets, Philadelphia. Owner, Mastbaum Bros. & Fleisher, 1424 South Penn square, Philadelphia. Brick, steel, one story, 60 x 64 feet, slag roof, pine and cement floors, metal lath, tile work.

Store Building (alts.), 1207 Locust street, Philadelphia. Architect taking bids due as soon as possible. Architect, Louis J. Cohen, 519 Real Estate Trust Building, Philadelphia. Owner, name withheld. Brick, steel, cast sone, 3 stories and basement, 15 x 54 feet, slag roof, maple floors, vacuum heat, electric light, tile work, metal lath, plumbing.

Twin Residences and Garage (10 pair), Arthur street, Frontenace and Summerdale streets, Philadelphia. Plans in progress. Architect, A. N. Dobbins, 1718 Cherry street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16 x 43 feet, 1 story 10 x 19 feet, slag roof, slate roof, hardwood and cement floors, hot water heat, electric light, tile work.

Apartment House, 39th and Sansom streets, Philadelphia. Owner taking bids. Architect, Henry L. Reinhold, 1632 Walnut street, Phila. Owner, Franklin Manor Corp., care Contractor. Brick, cut stone, steel, 10 stories, 50 x 100 feet, slag roof, hardwood floors, steam heat, oil burner, tile and marble work, electric light.

Residences (20), \$93,000, East side L st., north of Lycoming st., Philadelphia. Permit issued. Architect, private plans. Owner, John Haney, 2800 North 5th street, Philadelphia. Brick, 2 stories, 16 x 35 feet, 13 x 13 feet, hot water heat, electric light, pine and hardwood floors, slag roof.

Gas Station, \$4,000, Southeast corner Paul and Kinsey streets, Philadelphia. Permit issued. Owners, Standard Oil Co., Public Ledger Building, Philadelphia. Tile, stucco, one story, 9 x 28 feet.

Service Station, 57th and Lancaster avenue, Philadelphia. Owner taking bids due May 31. Owner, Standard Oil Co. of Penna., Public Ledger Bldg., Philadelphia. Brick, stucco, 1 story, 18 x 15 feet, tile roof, cement floors, electric light, metal lath, plastering, cement and concrete work.

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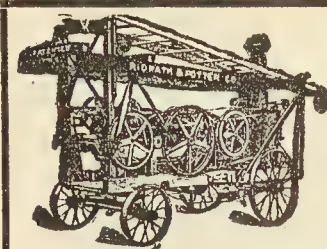
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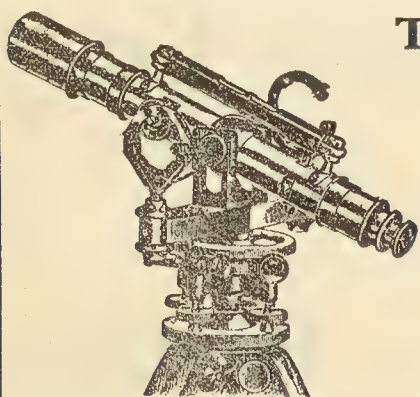
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

St. Barbara's Chapel and School, Lebanon avenue and George's lane, Philadelphia. Contract awarded to Jones-Redditt, McClatchey Building, Upper Darby, Pa. Architect, Peter F. Getz, Victory Bldg., Phila. Owner, D. Cardinal Dougherty, 18th and Summer sts.; Rev. Joseph L. N. Wolfe, S. T. S. J., on premises. Stone, steel, 3 stories and basement, 62x116 ft., slag roof, maple and cement floors, steam heat, electric light, metal lath, tile work, bond, ornamental iron work.

Store and Apartment (alts. and add.), 1811 South street, Philadelphia. Contract awarded Lancaster Building Co., 3935 Lancaster avenue. Architect, Benjamin Shulman, 1722 Arch street, Philadelphia. Owners, Reise & Sternberg, care of architect. Brick, 3 stories, 17x80 feet, general interior and exterior alterations, tile work, electric light, rear add., sheet metal.

Residence, York, Pa. Contract awarded Hess Brothers, Grantley and King's Mill road, York, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owner, W. K. Read, 273 West Springettsbury avenue, York, Pa. Stone, 2½ stories, 35x90 feet, shingle roof, linoleum floors, vapor heat, electric light, tile work.

Fire (alts.), 2012 Market street, Philadelphia. Contract awarded Curtis Co., 10 South Eighteenth street, Philadelphia. Architect, private plans. Owners, Gimbel Brothers, Eighth and Market streets, Philadelphia. Plastering, metal ceiling, electric work, marble work, painting.

Residence (alts.), St. Davids, Pa. Contract awarded Townsend, Schroeder & Wood, Drexel Building, Philadelphia. Owner, J. Keating Willecox, St. Davids, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia.

Apartment House, \$100,000. Southwest Corner Forty-sixth and Westminster avenue, Philadelphia. Contract awarded Lewis B. Roberts, 1018 North Sixty-fourth street, Philadelphia. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owner, Kenneth A. Merrill, care of architects. Brick, 4 stories, 56x95 feet, slag roof, hardwood and pine floors, slag roof, electric light, tile work.

Restaurant (alts.), \$10,000. 3413-17 Woodland avenue and 3402-4 Walnut street, Philadelphia. Contract awarded Harry R. Rust,

Inc., 19 South Eighth street, Philadelphia. Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. General alterations.

Building (add. and alts.), \$9,000. 423 Spruce street, Philadelphia. Contract awarded D. Negin, 1809 South Fourth street, Philadelphia. Architect, A. C. Bieber, 1520 Locust street, Philadelphia. Owner, W. H. Breitz, on premises. Brick, 2 stories add., 13x12 feet, general alterations.

Nurses' Home, \$20,000. 5324-40 Larchwood avenue, Philadelphia. Contract awarded M. L. Conneen & Son, 4023 Market street, Philadelphia. Owners, Misericordia Hospital, Fifty-third and Cedar avenue, Philadelphia. General alterations.

Residences (2), 529-31 Hoffnagle street, Philadelphia. Contract awarded H. W. Myers, 638 Solly avenue, Philadelphia, \$8,000. Architect, private plans. Owner, J. A. Bacher, 7862 Oxford avenue, Philadelphia. Brick, 2 stories, 16x43 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (8), \$32,000. (4) 2321-27 Rhawn street, Philadelphia. (4) South side Fuller street, West of Eastwood street, Philadelphia. Contract awarded Morris Kaplan, 813 South Fifth street, Philadelphia. Architect, private plans. Owners, Isard & Orleans, Shubert Building, Philadelphia. Brick, 2 stories, 16x26 feet, 18 feet 6 inches x 24 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residence (alts.), \$7,000. 1920 Panama street, Philadelphia. Contract awarded A. Raymond Raff Co., 1635 Thompson street, fire repairs.

Residence (add. and alts.), \$3,000. 836 North Nineteenth street, Philadelphia. Contract awarded Samuel Turner, 834 North Nineteenth street, Philadelphia. Architect, private plans. Owner, P. Deneto, on premises. Brick, 3 stories add., 13x36 feet, general alterations.

Laundry Building, \$4,000. 613-15 East Flora street, Philadelphia. Contract awarded W. F. Chapman, Rydal and Clement road, Jenkintown, Pa. Owner, Frank S. Abel, Hadonfield, N. J. Brick, 1 story, 35x68 feet.

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Building, \$2,000. Southeast Corner Elmwood avenue and Devery street, Philadelphia. Contract awarded Stanley Haberek, 502 North Sixtieth street, Philadelphia. Architect, private plans. Owner, Antonio Pawelaski, 2414 South Mellick street, Philadelphia. Brick, 1 story, 16x15 feet.

Shop (alts.), \$20,000. Southwest Corner Robbins street and State road, Philadelphia. Contract awarded Paul Brosz, 2515 West Huntingdon street, Philadelphia. Architect, private plans. Owners, M. Tucker & Co., 1415 Germantown avenue, Philadelphia. General alterations.

Residence and Store (alts.), \$3,000. 231 South street, Philadelphia. Contract awarded Max Sklar, 628 Pine street, Philadelphia. Architect, private plans. Owner, David S. Malis, Land Title Building, Philadelphia. General alterations.

Garages (4), \$3,000. 2220 E. Madison street, Philadelphia. Contract awarded William Marriott, 2912 North Third street, Philadelphia. Architect, private plans. Owner, Mrs. Moore, 2022 East Madison street, Philadelphia. Brick, 1 story, 8x16 feet, slag roof, cement floors, electric work.

Manufacturing Building, \$10,000. Richmond and Kennedy streets, Philadelphia. Contract awarded Chemical Construction Co., Charlotte, N. C. Architect, private plans. Owners, Charles Lennig Co., on premises. Iron on iron, 1 story, 50x80 feet.

Store and Storage Building (add.), \$2,000. 4138 West Ogden street, Philadelphia. Contract awarded Eli Karasow, 2420 South Ninth street, Philadelphia. Architect, private plans. Owner, M. B. Friedman, 4201 Ogden street, Philadelphia. Brick, 3 stories add., 12x15 feet.

Institution (add.), \$85,000, East side 18th street, North of Jefferson street, Philadelphia. Contract awarded D. W. O'Dea, 520 Duncan street, Philadelphia. Architect, private plans. Owners, Little Sisters of the Poor, on premises. Addition to present building.

Contracts Nos. 4 and 5, Manayunk, Phila. Contracts awarded to O'Neill Co., 127 East Mermaid lane, Philadelphia. Engineer, Clarke Dillenback, 505 Reading Terminal, Phila. Owner, Reading Co., 12th and Market streets, Philadelphia. Brick, steel, 1 story, 90 x 33 feet, concrete and cement work, granite, brick work, ornamental terra cotta, hollow tile, cinder block, steel sash, slate roof, hollow metal doors, metal lath, plastering, tile work, marble work, caulking, painting, glazing, bronze work, plumbing, steam heating, hardware, electric work, freight station, asbestos built-up roof, 1 story, 92 x 30 feet, brick, steel, bid.

Pennsylvania Construction News

Junior and Senior High School, Royersford, Pa. Architect selected. Too early for details. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford School Board, A. J. English, supervising principal, Royersford, Pa. Brick, steel, concrete, 2 stories.

Hospital, \$60,000. Reading, Pa. Plans in progress. Architect, M. B. Dechant, 632 Washington street, Reading, Pa. Owners, Homeopathic Hospital, F. S. Sertz, 135 North Sixth street, Reading, Pa. Fireproof, 2 stories and basement, 35x90 feet, built-up roof, composition floors, dumb waiters, safety treads, roof ventilators, dampproofing, architectural terra cotta, fire doors, steel sash and skylights, tile, marble, steam heat, electric light.

Bank, Lancaster and Wayne avenues, Wayne, Pa. Working plans in progress. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Wayne Title & Trust Co., L. H. Watts, president; J. H. Hallman, secretary, Wayne, Pa. Stone, steel, concrete, 2 stories, 84x84 feet.

Mechanical Building, near Doylestown, Pa. Plans in progress. Architects, Silverman & Lavy, Thirteenth and Chestnut streets, Philadelphia. Owners, National Farm School, S. B. Samuels, Doylestown, Pa., and J. B. Allman, 1522 Chestnut street, Philadelphia. Brick, 2 stories, 50x100 feet.

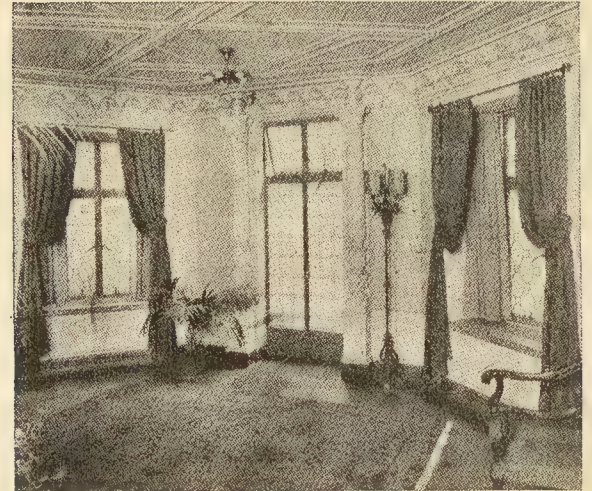
Apartment and Hotel, West Chester, Pa. Preliminary plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, Mrs. S. Milheiser, Mansion House, West Chester, Pa. Will contain 500 rooms, 36 apartments, store rooms.

School, York Springs, Pa. Plans in progress. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, York Springs School Board, A. T. Bennett, York Springs, Pa. Brick, steel, 1 story, 33x130 feet, composition roof, maple floors, steam heat, electric light.

Residence (alts. and add.), Merion, Pa. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owner, name withheld. Plans in progress.

Residence, Morris Heights, Pa. Plans in progress. Architect, Walter Hankin, 224 East Hanover street, Trenton, N. J. Owner, Walter Griggs, care of architect. Frame, 2½ stories, 34x34 feet, wood shingle roof, hardwood floors, hot water heat, electric light, tile work.

Theatre, Erie, Pa. Revised plans in progress. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Warner Brothers, Real Estate Department, 321 West Forty-fourth street, New York. Brick, steel, concrete, 3 stories and basement.



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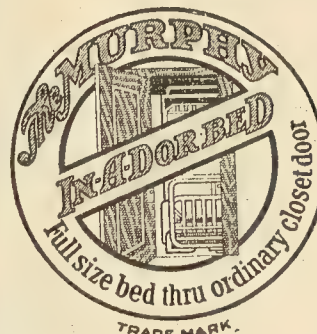
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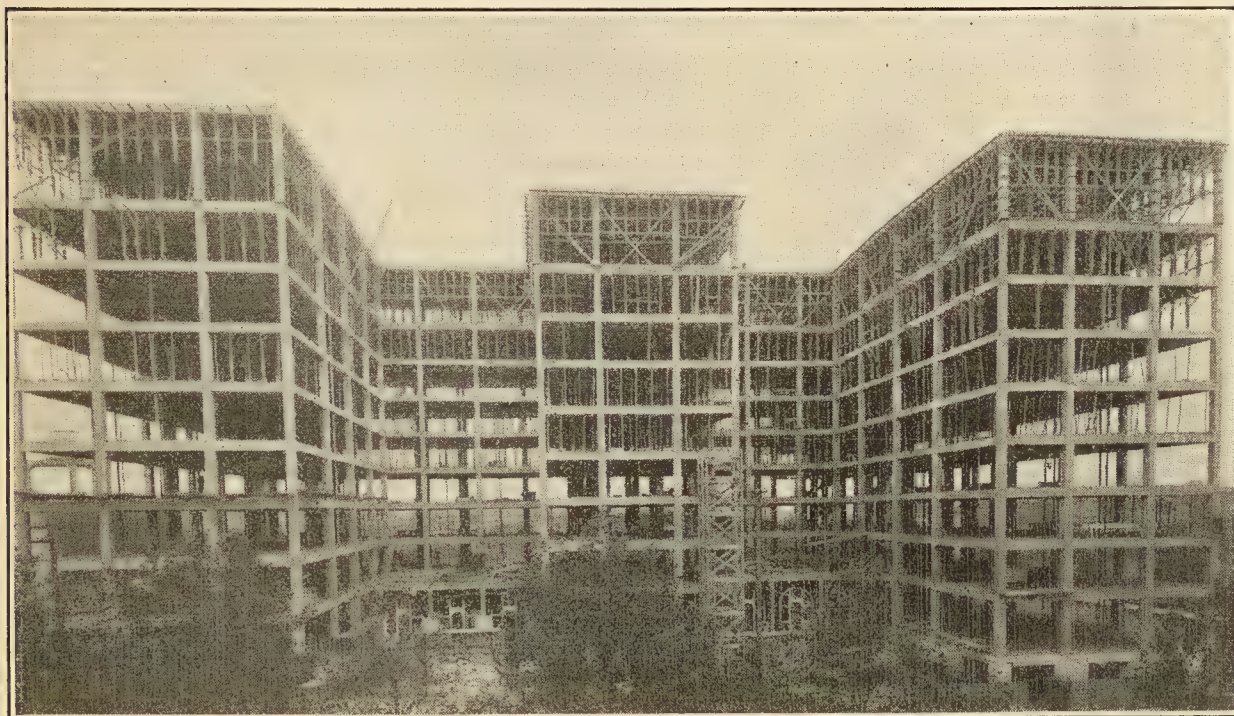
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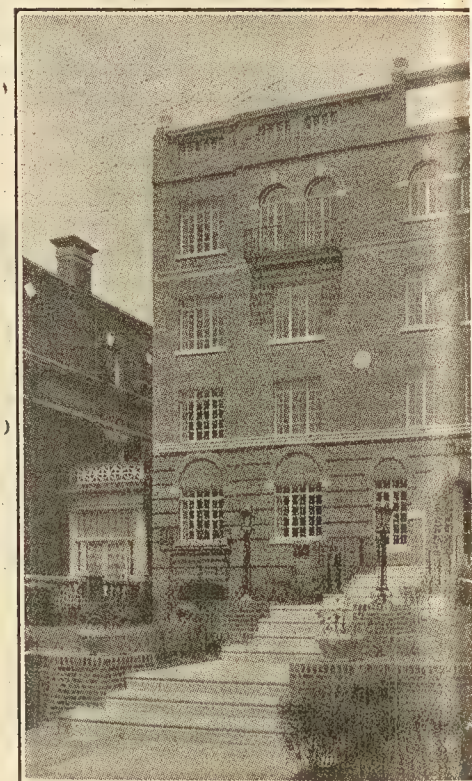
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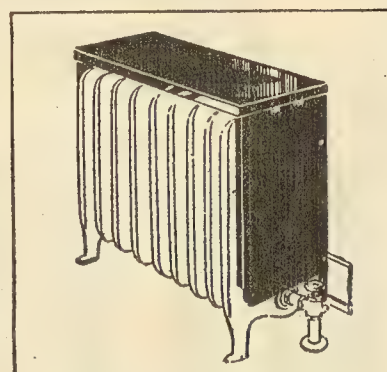
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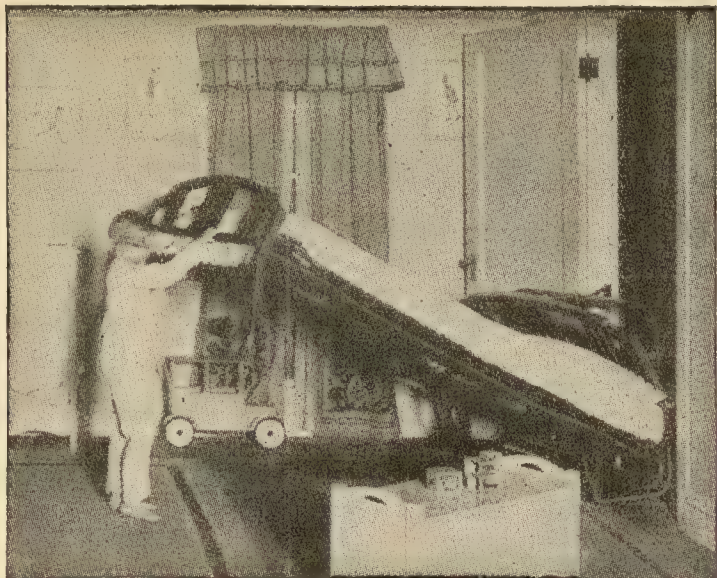
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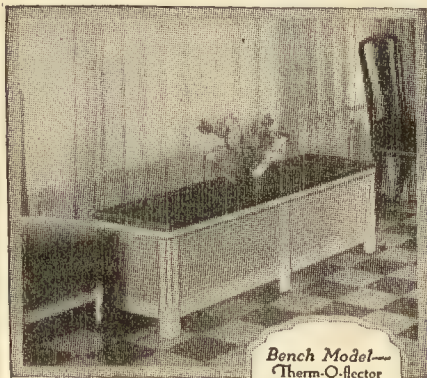
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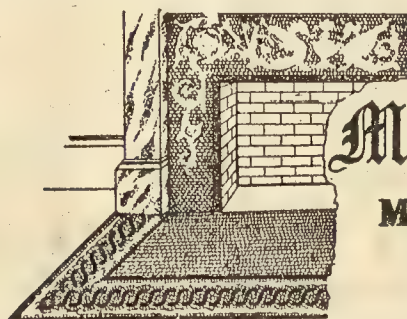
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Office and Apartment (alts. and add.), 228 West Market street, York, Pa. Plans in progress. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, Dr. W. H. Schellhamer, 477 West Market street, York, Pa. General alterations and addition.

Sunday School (add.), Waynesboro, Pa. Plans in progress. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Lutheran Church of Waynesboro, Rev. Dr. Francis, Waynesboro, Pa. Brick, stone, 2 stories and basement, 80x150 feet, slate roof.

Hall (int. alts.), Gettysburg, Pa. Plans in progress. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Gettysburg College, care of architect. Brick, 3 stories, steam heat, fireproof floors, marble work, terrazzo work, iron stairs, ornamental plaster.

Hospital (alts.), Norristown, Pa., \$150,000. Engineer, W. L. Hibbard, Penfield Building, Philadelphia. Appropriation made. Plans in progress. Owners, State Hospital, Norristown, Pa. Hot water heating plant (central), re-roofing ward buildings, bath rooms in men's and women's nurses' home, electric elevators in brick stables and piggery, storm sewers.

Factory, Lancaster, Pa. Architect ready for bids. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, S. B. Lawrence, Lancaster, Pa. Brick, steel, 3 stories, 100x150 feet, composition roof, concrete floors, roof ventilators, electric work, steel sash, fire doors.

Sales and Service Building, Bristol, Pa. Plans about completed. Ready for bids in one week. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, Thomas A. Collier, Bristol, Pa. Brick, limestone, 1 story and mezzanine, 125x110 feet, irregular, slag roof, cement floors, plate glass, metal bars, electric light, steam heating.

Sunday School, Darby, Pa. Plans in progress. Ready for bids in three weeks. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owners, Darby Presbyterian Church, on premises. Stone, brick, 2 stories, 40x90 feet, slate roof, wood and cement floors, plumbing, electric light, kitchen equipment.

Apartment House, Gowen avenue and Bryan avenue, Elkins Park, Pa. Plans completed. Owner ready for sub-bids. Work to start in one month. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owner, H. B. Cahan, Bankers' Trust Building, Philadelphia. Brick, stucco, half timber, 4 stories and basement, 175x30 feet, 20 housekeeping apartments, servants' quarters in the basement.

Residence and Garage, Merion, Pa. H. Martin Moloney, Cynwyd, taking sub-bids. Architect, J. Bedford Wooley, 1935 Chestnut street, Philadelphia. Owner, name withheld. Stone, frame, stucco, 2½ stories, shingle roof, electric light, tile work, hardwood floors, cement work.

Warehouse, Stewartstown, Pa. Owner will take sub-bids. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, H. W. Anderson, Stewartstown, Pa. Brick, concrete, 1 story, 82x92 feet, built-up roof, concrete floors, roof ventilators, steam heat, electric light, metal lath, skylights.

Residence, Ephrata, Pa. Owner will build. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, C. P. Wenger, Ephrata, Pa. Stone, 2½ stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

School, Merion Square, Pa. Owners ready for bids due June 12th at noon. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, W. L. Austin, Ardmore, Pa. Deposit, \$5, refunded \$2. Certified check, \$5,000.

Bank Building, Harleysville, Pa. Architect taking bids due June 3rd (note due date). Architect, Charles M. Talley, 314 West Broad street, Telford, Pa. Owners, Harleysville National Bank, Harleysville, Pa., Dr. V. Kelsner. Brick, cast stone, steel, 1 story, mezzanine and basement, 70x42 feet, bond, excavation, cinder concrete block, limestone, caulking, steel concrete floors, steel sash, slag roof, metal lath, plastering, iron and tile work, hollow steel doors, oak floors, painting, glazing, hardware.

School, Lebanon Independent Borough, Pa. Owners taking revised bids due June 5th. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owners, Lebanon Independent Borough, Charles Boltz, Lebanon, Pa. Brick, steel, 2 stories, 10 rooms, composition roof, pine floors, roof ventilators, iron stairs, steel sash.

Church, Carlisle, Pa. Architect taking bids due June 14th. Architect, C. J. Lapple, Park-

side Building, Harrisburg, Pa. Owners, United Brethren Church, Rev. I. Ernst, Carlisle, Pa. Brick, stone, auditorium and basement, 97x55 feet, tin roof, yellow pine floors, electric work, metal lath, waterproofing, cast stone, cinder concrete block.

Parsonage, Richboro, Pa. Architect taking bids due June 6th, 4 P. M. Architect, Harry E. Parker, 1120 Locust street, Philadelphia. Owners, Reformed Dutch Church of Addsville, care of architect. Brick, 2 stories, 24x40 feet, slate roof, hardwood floors, plumbing, hot water heat, electric light, tile work, plumbing.

School, Friedensburg, Pa. Owners taking revised bids due May 31st. Architects, Scholl & Richardson, 510 Walnut street, Harrisburg, Pa. Owners, Oley Township School Board, I. S. Rothenberger, Limekiln, Pa. Brick, steel, 2 stories and basement, 134x150 feet, maple floors, safety treads, roof ventilators, metal lath, steel sash, bond (heating, plumbing and electric separate).

Residence (alts. and add.), 1104 Perkiomen avenue, Reading, Pa. Architect taking bids due June 5th. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owner, E. E. Frederick, care of architect. General interior alterations, Warren Webster heat, electric work, tile, hardwood floors.

Telephone Building, Stroudsburg, Pa. Architect taking bids due May 31st. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Nineteenth and Arch streets, Philadelphia. Brick, steel, 2 stories and basement, 80x50 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile work, bond, ornamental iron work.

School, Barker street, Ridley Park, Pa. Engineer, H. H. Newberg, 416 Hammon street, Ridley Park, Pa. Owners taking bids due June 7th, 8 P. M. (Daylight Saving Time). Owners, Board of Education, H. M. Davis, secretary, Ton Street School, Ridley Park; Dr. E. Bonnett, president. General construction, heating, plumbing, electric and ventilating. Deposit, \$15, refunded \$10. Work to be completed by September 1st, 1929. Certified checks: General, \$750; heating and ventilating, \$250; plumbing, \$200; electric, \$100.

Grade School Building, Borough of Clark's Summit, Pa. Owners taking bids due June 3rd, at 6 P. M. Architects, Department of Public Instruction, Commonwealth of Pennsylvania, Harrisburg, Pa. Owners, Board of Directors of Joint School District of Clark's Summit and Clark's Green, Ralph L. Wood, secretary, High School Building, Borough of Clark's Summit, Pa. Plans and specifications may be obtained from Ralph L. Wood, International Correspondence Schools, 1001 Wyoming avenue, Scranton, Pa. Deposit, \$25 (refunded). Certified check, 10 per cent. Bond.

Main Building, State College, Pa. Architect taking bids due June 13th, 3 P. M. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Pennsylvania State College, State College, Pa. Stone and steel, 4 stories and basement, 233x91 feet, promenade tile and slate roof.

Building (Convent of Our Lady of Angels), Glen Riddle, Pa. Architect taking bids due June 3rd. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, Sisters of the Third Order of St. Francis, Mother M. Kilian, General Superior, Glen Riddle, Pa. Stone, steel, 3½ stories and basement, 110x50 feet, slate roof, oak and cement floors, electric light, tile work, metal lath, bond, ornamental iron work.

School, Thirteenth and Union streets, Reading, Pa. Low bidders: Jones-Redditt Co., Upper Darby, Pa., \$185,000; Oscar J. Degler, 1041 Walnut street, Reading, Pa., \$189,985. Architects, Muhlenberg Brothers, 113A South

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Fourth street, Reading, Pa. Owners, Reading School Board, Oscar B. Heim, secretary, Eighth and Washington streets, Reading, Pa.

Heating and Ventilating in W. E. Cass and Robert Morris Building, Morrisville, Pa. Owners taking bids due June 5th, 8 P. M. Architect, T. B. Stockholm, Morrisville, Pa., or E. P. Selig, engineer, 1501 Herr street, Harrisburg, Pa. Owners, Board of Directors, Morrisville School District, Morrisville, Pa. Deposit, \$25, refunded. Bids to Walter R. Taylor, Morrisville, Pa. Bids opened in Robert Morris Building.

Miscellaneous Work, Darby, Pa. Owners taking bids due June 4th. Owners, School District, Walter R. Doughett (phone Darby 1809), James E. Mellon, secretary, Darby, Pa. Cement worn on Sixth, Tenth and Ridge avenue, Darby, Pa. Painting interior Walnut Street School. Painting interior and exterior old Ridge Avenue School. Furnish and erect metal ceilings and plastering, old Ridge Avenue School, school and janitor supplies.

Bridge, Pinetown, Pa. Owners taking bids due June 1st. Owners, Borough of Upper Dublin Township and Pennsylvania Railroad, Broad Street Station. Bidder: Lam Building Co., 1001 Wood street, Philadelphia.

Paving, Ryers avenue, Village of Cheltenham, Pa., from Myers avenue to Cottman street. Owners taking bids due June 11th, at 9 P. M. (Daylight Saving Time). Engineers, Albright & Mebus, 112 South Easton road, Glenside, Pa. Owners, Board of Commissioners of Cheltenham Township, Harold C. Pike, secretary, Elkins Park, Pa. Cement paving. Deposit, \$10. Refund, \$5. Certified check, 5 per cent.

Bridges (2), over Tacony Creek, Cheltenham, Pa. [No. 46]. Over Lodal Creek, near Gratersford, Pa. Owners taking bids due June 10th, at 9 A. M. (Eastern Standard Time). Owners, Montgomery County, W. C. Irwin, Controller, Court House, Norristown, Pa. Reinforced concrete. Certified check.

Residence (alts.), St. Davids, Pa. Architect taking bids due as soon as possible. Architect, Richard W. McCaskey, Otis Bldg., Philadelphia. Owner, C. W. Drummon, Wayne, Pa.

School (add.), Wallingford, Nether Providence, Pa. Low bidders. Architect, Heacock and Hokanson, 1211 Chestnut street, Phila. Owner, Nether Providence Township School Board, C. Lewis, Media, Pa. Brick, stone, 2 stories and basement, 80 x 37 feet. Jones Reditt Co., McClatchy Bldg., Upper Darby, Pa., \$39,880, deduct \$4,800. Richardson and Luce, 1524 Chestnut street, Philadelphia, \$41,897, deduct \$4,553. Heating, W. P. Fowden, Chester, Pa.

High School, South Williamsport, Pa. All bids rejected with exception of electric wiring. Architects, Lawrie & Green, Odd Fellows Building, Harrisburg, Pa. Owners, South Williamsport School Board, A. B. Elder, Supervising Principal, High School Building, So. Williamsport. Brick, steel, reinforced concrete, 2 stories, 167 x 57 feet 10 inches, 176 x 64 feet, excavation, concrete floors, cinder block, hollow tile, cast stone, asbestos built-up roof, yellow pine floors, metal lath, ornamental plaster, composition floors, steel casement sash, painting, glazing, steel sash, hardware, kelamein doors, tile, iron stairs, hollow metal toilet partitions and doors, metal window guards, acoustical treatment, Celotex, Duntile, roof ventilators. Owners taking revised bids due June 14th. Plans and specifications at 826 Perry Building, Philadelphia. Electric wiring awarded to Here Woodring Co., Hazleton, Pa.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

Pennsylvania Contracts Awarded

High School Annex Building and Gymnasium, Seventeenth and Linden streets, Allentown, Pa. Contracts awarded. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Allentown School District, T. P. Wenner, secretary, 29 South Penn street, Allentown, Pa. Brick, cut stone, limestone, steel, 4 stories and basement, 125x109 feet, gymnasium building, 2 stories and basement, 139x85 feet, excavation, waterproofing, concrete, cement, cinder block, gypsum block, metal lath, tile and terrazzo, dampproofing, ornamental iron, safety treads, steel sash, maple floors, fireproof doors, floor hardener, steel lockers, steel cabinet, granite caulking, Barrett specification roof, reinforced concrete, metal lath, plastering, structural steel, ornamental iron, steel sash, carpentry, mill work, steel deck roof, built-up roof. School awarded: Butz & Clader, 519 Hamilton street, Allentown, Pa. Gymnasium: Ochs Construction Co., 440 Wire street, Allentown, Pa. Plans on stadium to be revised.

Church, York, Pa. Contract awarded I. Rein-dollar & Son, 34 East Springettsbury avenue, York, Pa. Architects, Witman & Royer, 36 East Market street, York, Pa. Owners, St. Peter's Lutheran Church, Rev. James H. Goss, 946 North George street, York, Pa. Brick, stone, steel, 1 and 2 stories, 78x103 feet, slate roof, maple floors, vapor heat, electric light, rolling curtain.

Jackson School (add.), \$35,036. York, Pa. Contract awarded L. M. Klunk, 205 South George street, York, Pa. Electric, John Barton, 251 South George street, York, Pa., \$575. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, York School Board, D. N. Crider, secretary, King and Cherry streets, York, Pa. Brick, steel, 2 stories, 77x67 feet, built-up roof, maple floors, hollow tile, roof ventilators, waterproofing and damp-proofing, architectural terra cotta, kalamein doors, metal lath, tile. Owners will take new bids on plumbing.

Grade Schools (2) (add.), Laurel Bend and Croyden, Pa. Contracts awarded for both schools. Architect, Charles H. Jester, 141 South Fifty-second street, Philadelphia. Owners, Bristol Township School Board, A. Seyfert, Laurel Bend, Pa. Brick, 1 story, 48x36 feet, 34x28 feet, excavation concrete foundations, miscellaneous iron work, bond, carpentry and mill work, plumbing, steam heat. Gen-

eral to Jesse L. Betz, Edgely, Pa., \$11,000. Plumbing and heating to Barth Brothers, Cynwyd, Pa., \$2,200.

Buildings (2) (alts. and add.), Wyncote, Pa. Contract awarded W. J. Stevens, Wyncote, Pa. Architect, Adiel Martin Stern, 413 North Thirty-eighth street, Philadelphia. Owner, William H. Berger, Memorial Home for the Aged, Wyncote, Pa. Stine, brick, concrete, 3 stories and basement, 24x24 feet, garage, 30x30 feet, 2 stories, slate roof, cement and pine floors, plumbing, electric light, metal lath, tile work, bond, ornamental iron work, tile work (heating separate bids).

Country Club House, \$65,000. Southeast Corner Northlyn Boulevard and City Line avenue, Highland Park, Pa. Contract awarded United Engineering & Construction Co., 112 North Broad street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, steel, stone, concrete, 1 story, 75x37 feet.

Residence and Garage, Tennes avenue, Ambler, Pa. Contract awarded Potts Brothers, Ambler, Pa. Architect, Horace Wells Sellers, Stephen Girard Bldg., Phila. Owner, J. William Ditter, care of architect. Stone, 2½ stories and basement, 32x74 feet, shingle roof, oak and pine floors (plumbing, heating, electric reserved), metal lath, tile work, bond, ornamental iron work.

New Jersey Construction News

Dormitory and School, Pennington road, Trenton, N. J. Plans in progress. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State Board of Education, Charles H. Elliott, secretary, State House, Trenton, N. J. Brick, steel, 2 stories (heating, plumbing and electric separate), school equipment.

Borough Hall (alts.), Pennington, N. J. Preliminary plans in progress. Architect, Walter Hankin, 224 East Hanover street, Trenton, N. J. Owners, Borough of Pennington, care of architect. General alterations, slate roof, hardwood floors, 36x78 feet.

Church (alts. and add.), Trenton, N. J. Plans in progress. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, First Presbyterian Church, Hamilton Square, Mercer County, N. J. Concrete block, stucco, 1 story, 37x58 feet, slate roof, oak and

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Club House, Brigantine Beach, N. J. Plans in progress. Too early for details. Contracts for first unit awarded to P. G. Hannum, Atlantic City, N. J. Architects and engineers, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Club Atlantic, on premises. Brick, steel, 3 stories, 57x206 feet, wing 30x52 feet.

Church (alts. to New Departmental Sunday School Building), Mt. Holly, N. J. Sketches in progress. Too early for details. Architects, Office of J. B. Thomson, 1321 Arch street, Philadelphia, and Dr. Henry E. Tralle, consultant, 183rd and Pinehurst avenue, New York. Owners, Mt. Holly Baptist Church, Rev. M. R. Palmer, 31 Gardner street, Mt. Holly, N. J. Brick, stone, 2 stories, 48x93 feet.

Restaurant (alts.), 18 Journal Square, Jersey City, N. J. Plans in progress. Architects, Stuckert Co., 1600 Arch street, Philadelphia. Owners, Kelsey, Inc., on premises. General alterations.

Armory, Newark, N. J. Owners taking bids due June 11th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, State Military Armory, care of Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Parochial School, Landes and Myrtle avenues, Vineland, N. J. Architect taking bids due June 6th, at noon. Architect, Emil G. Perot, 1211 Arch street, Philadelphia. Owners, Sacred Heart Roman Catholic Church, Rev. James A. Bulfin, rector, Vinecland, N. J. Holmesburg granite block facing, reinforced cinder block, 3 stories and basement, add., 72x33 feet, 1 story and basements, 55x21 feet, built-up felt roof, cement and maple floors, steam heat, electric light, ornamental iron work, plumbing.

Store and Office (alts.), Southwest Corner Federal and Day streets, Camden, N. J. Architects taking bids due June 6th, before noon. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, James M. Thorrf, 515 Market street, Camden, N. J. Brick, cement, 3 stories, slag roof, composition floors, hot water heat, electric light,

dampproofing, metal bulks, green house, general alterations.

Residence, Pennsgrove, N. J. Architect taking bids due June 6th. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, Fred Gentieu, Pennsgrove, N. J. Brick, 3 stories, 40x40 feet, shingle roof, oak and tile floors, tile work, electric light.

Plumbing, Heating, etc., Municipal Building, Camden, N. J. Owners taking bids due June 7th, 8 P. M. (Daylight Saving Time). Architects, Edwards & Green, Camden, N. J. Owners, Board of Chosen Freeholders, Camden County, City Hall, Camden, N. J., F. W. George, clerk. Deposit, \$150, refunded. Certified check, 10 per cent. bond. Heating, plumbing, drainage, electric, ventilating.

Disciplinary Building, Colony for Feeble-Minded Males, New Lisbon, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, stucco, steel, 1 story and basement, 94x42 feet, wing 19x34 feet, excavating, reinforced concrete, waterproofing and damp-proofing, structural steel, iron, metal window guards, steel sash, caulking, kalamein doors, carpentry, mill work, asbestos shingle roof, metal lath, tile, marble, Alberne stone work, painting, glazing, hardware, cinder concrete block, limestone, granite. General: Theo. G. Clatts, Mt. Holly, N. J., \$30,498.60; Charles S. Moses, Edgewater Park, N. J., \$38,846. Plumbing, George D. Worrell, Mt. Holly, N. J., \$4,972. Heating, George D. Worrell, Mt. Holly, N. J., \$3,679. Electric, Strang Electric Co., 2903 Westfield avenue, Camden, N. J., \$2,891.

Honor Cottages (4), State Reformatory for Boys, Jamesburg, N. J. Low bidders. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, brick, steel, 2 stories and basement, 100x24 feet, wing 78x22 feet, cement floors, floor hardener, ornamental iron, excavation, integral and membrane waterproofing, dampproofing, concrete block, limestone, bluestone, iron work, metal lath, metal

window guards, iron stairs, slate and slag roof, caulking, maple floors, plastering, tile work, Alberne stone, metal weather strip, screens. General: A. Christensen, Carteret, N. J., \$175,000. Plumbing, Adams & Mulready, New Brunswick, N. J., \$16,068. Heating, Nelson Piping & Equipment Co., 706 Delancey street, Philadelphia, \$16,345. Electric, J. T. Flanagan, Broad Street Bank Building, Trenton, N. J., \$5,390; Mercer Electric Co., 338 South Broad street, Trenton, N. J., \$12,000.

Temple, Trenton, N. J. Low bidder: General Contracting & Construction Co., 133 East Front street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Har Sinai Temple, care of architect. Fireproof, stone, 1 and 3 stories, 100x150 feet, tile roof, tile and cement floors, safety treads, roof ventilators, metal lath, fire doors.

Bridges, Route 39, Sec. 2, between Borden-town and Chambers Corner, Burlington County, N. J. Owners taking bids due June 10th noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Concrete, reinforcing steel, structural steel, foundation excavation. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners taking bids due June 10th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Removal of concrete counterweight and bascule leaf from channel of Hackensack River at Lincoln Highway, Hudson County. Removal of temporary fender rack, repair of permanent fender rack and dredging of channel. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners taking bids due June 10th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 29, Sec. 9, Washington avenue to Union County Line, Somerset County, N. J. Unclassified excavation, reinforced concrete pavement, bituminous macadam pavement.

Route 31, Sec. 7, from Hamburg to North Church, Sussex County. Earth excavation, rock excavation, reinforced concrete pavement.

Route 48, Sec. 21, from Malaga to Elmer, Gloucester and Salem Counties. Unclassified excavation, reinforced concrete pavement. Certified check, 10 per cent. Deposit, \$10.

New Jersey Contracts Awarded

Residence and Office (add.), \$5,000, 110 N. 27th street, Camden, N. J. Contract awarded B. C. Sharp, 23 North 30th street, Camden, N. J. Owners, Richard Asay, 110 North 27th street, Camden, N. J. Block, 1 and 2 stories, 14 x 16 feet, 14 x 27 feet, 6 x 16 feet, 12 x 31 feet, slag roof.

Junk Shop, \$4,000, 617 Chestnut street. Camden, N. J. Contract awarded Ludwik Grabowski, 1121 Kaighn avenue, Camden, N. J. Owners, Samuel Joffa, Camden, N. J. Brick, 2 stories, 37 x 40 feet, slag roof.

Mill Building, \$6,000, 327-29-31 Pine street, Camden, N. J. Contract awarded Jos. De Medio, 1105 South 4th street, Camden, N. J. Architect, private plans. Owner, Benj. De Medio, 1105 South 4th street, Camden, N. J. Brick, 2 stories, 51 x 47 feet, slag roof.

Administration Building (alts.), Municipal Colony, Trenton, N. J. Contract awarded Samuel Teitz, 742 Greenwood avenue, Trenton, N. J. Heating and plumbing to W. E. Bittner, 2015 Hamilton avenue, Trenton, N. J. Architect, W. A. Klemann, First National



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Bank Building, Trenton, N. J. Owners, City of Trenton, care of architect. General interior and exterior alterations.

Factory, Mantua avenue, Woodbury, N. J. Contract awarded J. T. Allen, Woodbury, N. J. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owners, H. Linsk & Co., 40 North Sixth street, Philadelphia. Concrete block, face brick, stucco, 1 story, 50x85 feet, Barrett specification roof, cement floors, steam heat, electric light, plumbing, Lupton steel sash.

Miscellaneous Work, Camden, N. J. Owners, Department of Purchase, Charles B. Helms, No. 4 City Hall, Camden, N. J. Contracts awarded: Paving, etc., E. F. Verga, Camden, N. J., \$83,629.30. Sewers, E. R. Moorehouse, Camden, N. J., \$17,241.80. 6-inch concrete paving, R. C. MacMullin, Camden, N. J., \$13,968.

Bulkhead, Camden, N. J. Contract awarded Rendle Corporation, East Boston, Mass., \$188,331. Architect, C. W. Staniford, 50 Church street, New York. Owners, South Jersey Port Commission, A. C. Middleton, 106 Market street, Camden, N. J. 1,050 feet concrete wall. Work to start in 10 days.

Miscellaneous Construction News

Club House (alts. and add.), Berwind, McDowell County, W. Va. Preliminary plans in progress. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, Berwind Club, Berwind, McDowell County, W. Va.

Building (alts.), Queen Boulevard and Bliss avenue, Long Island, N. Y. Plans about completed. Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, Bickford Lunch System, 362 West Fiftieth street, New York. Granite, brick, bronze doors, entrance and bulks, L shape, tile work.

Stores (add. and alts.), Market street, Wilmington, Del. Architect will be ready for bids next week. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, J. W. Toadvine, 835 Market street, Wilmington, Del. Brick work, 3 stories, 18-foot front, slate roof, tile and marble work, general interior and exterior alterations.

Residence and Garage, Wilmington, Del. Plans completed. Owner ready for general bids. Engineer, L. J. Cohen, 519 Real Estate Building, Philadelphia. Owner, Abraham Sayer, Eighteenth and Market streets, Wilmington, Del. Brick, 2½ stories, 43x32 feet, tile roof, hardwood floors, hot water heat, electric light, tile work, steel sash, cast stone. Plans may be seen at engineer's office.

Residence, Cincinnati, Ohio. Revised plans in progress. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Dr. B. N. Carter, Cincinnati, Ohio. Stone, 2½ stories and basement, 162x26 feet, shingle roof, oak and pine floors, cement floors, hot water heat, electric light, metal lath, tile work.

Residence, Wilmington, Del. Architect taking bids due June 6th. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, P. C. Sissler, Equitable Building, Wilmington, Del. Stone, 2½ stories, 28x38 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Road Work, Delaware. Owners taking bids due June 11th, at 2 P. M. Certified check, 10 per cent. Owners, State Highway Department, Dover, Del.

Contract 125, Hazletville-Dover, 6.90 miles. Excavation, borrow, broken stone base course, slag base course, pipe, relaid pipe.

Contract 126, Flower's Station-Maryland State Line, 3.97 miles. Clearing, grubbing, excavation, borrow, broken stone base course, slag base course, pipe, timber piling, sheet piling.

Contract 127, surface treatment, 26 miles.

Contract 128, police station, Penny Hill.

Road Work, Delaware. Low bidders. Owners, State Highway Department, Dover, Del.

Contract 122, Gravelly Hill-Zoar Camp, 4.81 miles. Field, Barker & Underwood, Commercial Trust Building, Philadelphia, \$20,651.50.

Contract 124, Roxana Highway to Bayard, Traffic Bound Roadway, 1.60 miles. Field, Barker & Underwood, Commercial Trust Building, Philadelphia. Stone, \$12,597.50. Slag, \$11,076.60.

Miscellaneous Contracts Awarded

Church, Washington, D. C. Contract awarded W. A. Kimmel, Evans Building, Washington, D. C. Architects, Ritter & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lutheran Church of the Atonement, H. P. Cremmerer, 943 L street, N. W., Washington, D. C. Steel, brick, stone, 1 story and basement, 60x115 feet, built-up slate roof, composition floors, hollow tile, safety treads, waterproofing and dampproofing, wire work, cast stone, hollow metal doors, steel sash, metal lath.

Grade School, \$34,135.17. Stanton, Del. Contract awarded Van Sant Brothers, 831 Tattall street, Wilmington, Del. Architects, Guilbert & Betelle, Chamber of Commerce Building, Wilmington, Del. Owners, Delaware School Auxiliary, State School Building Commission, County Building, Wilmington, Del. Brick, concrete, 1 story, 32x44 feet, timber roof.

Residence, Brookville, Long Island, N. Y. Contract awarded Metzger & Co., Otis Building, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, James B. Clews, 9 Broadway, N. Y. Limestone, fireproof, 2½ stories, 174x100 feet, slate roof (hardware reserved), vacuum heat, hardwood and cement floors, tile and marble work, dumb waiter, ornamental iron work, brass pipe, cast stone, bluestone, 15 bath rooms.

Restaurant (alts.), Webster avenue and East Fordham road, New York City. Contract awarded Kuhn, Smith & Harris, 225 West Thirty-fourth street, New York. Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, Bickford Lunch System, 362 West Fiftieth street, New York. Granite, brick, steel, bronze doors, bulks and entrance, tile and marble work, ornamental glass interior, terra cotta.

NATIONAL TRIBUNAL OPENS

Business Men May Arbitrate Their Disputes

New York City—America's greatest public arbitration Tribunal which will coordinate the nation's facilities for peaceful settlement of business disputes, will soon be officially opened. National in scope, its headquarters will occupy the entire 29th floor in the Tower of the new Lefcourt National Building, a 40 story skyscraper on the site of Fifth Avenue's oldest land-mark, at the corner of Forty-third Street.

The American Arbitration Association,

a non-profit making membership organization, will conduct this Tribunal which will correlate the facilities now established in the 1,650 important commercial centers in the country.

These headquarters have been made necessary by the business demand for arbitration which have far-out-grown the present facilities of the Association. This system is open at all times to the public regardless of trade or business affiliations.

Trade Groups Cooperate

More than 200 of the nation's most prominent trade and professional associations have unreservedly endorsed commercial arbitration as a necessary, practical business tenet and have been continuously active in securing the enactment of effective arbitration laws to protect the interests of the business and professional men and the farmer.

Hundreds of smaller trade and professional associations have recommended the insertion of arbitration clauses in the contract of their members' forms to insure the equitable, speedy, economic and amicable settlement of any dispute that may arise. The Public Tribunal co-operates with these trade tribunals, nearly all of which are affiliated with the American Arbitration Association.

In less than a decade, arbitration has grown so that business men, no matter where located, might settle their differences speedily and amicably at a minimum of inconvenience and expense. The dispute is submitted in a simple, non-technical procedure to the arbitrators mutually agreed upon by the disputants. Cases submitted to arbitration have a purely commercial aspect and in no event relate to labor relations or to criminal cases.

Lawyers Lend Aid

It has been the experience of business that settlements by commercial arbitration retain the business friendship between the disputants and are equally as just and more economical than recourse to litigation. Flooded dockets of civil courts, caused by expansion of the country's commercial system, has made commercial arbitration an immediate economic necessity, according to leading business and legal authorities. Where in many instances years are spent in arriving at a verdict in a law suit, a matter of days or even hours suffices in arbitration.

Has Distinguished Leaders

All of the 6,000 arbitrators serving in the 1,650 Tribunals serve without compensation and upon a few days' notice make themselves available for hearings as a contribution to the stability of commercial goodwill throughout the country. It is the fact that business men engulfed in disagreement have been able

to select their own judge that has led to such a widespread acceptance of the practice of arbitration. In many instances, the arbitrator selected is a man in the same profession or line of business as the disputants, the principals preferring a man with a thorough knowledge of trade practices and values involved.

The roster of executives and directors of the American Arbitration Association embraces names of a number of the most prominent jurists and business and professional men in America; names which stand high for practical expression of high ideals. President Hoover is an Honorary President and so practically interested that he wrote the Foreword for the Association's Year Book. Other Honorary Presidents are: Charles Evans Hughes, Newton D. Baker, Judge Moses H. Grossman and Charles L. Bernheimer.

Its regional vice-presidents, each with general supervisory powers in the administration of the Association's affairs are: Julius Rosenwald, of Illinois; Evans Woollen, of Indiana; Monte M. Leman, of Louisiana; Charles Nagel, of Missouri; John H. Puelicher, of Wisconsin; Robert Goodwyn Rhett, of South Carolina; Franklin Simon, of New York; E. G. Van Hoesen, of Idaho; and Harry A. Wheeler, of Illinois.

Officers are: Lucius R. Eastman, President; Frances Kellór, first Vice-President; Felix M. Warburg, Chairman of the Board; Charles T. Gwynne, Vice-Chairman of the Board; James H. Post, Secretary; Samuel McRoberts, Treasurer; Lee J. Eastman, Chairman Trades Board and L. K. Comstock, Chairman of Finance.

Lee H. Miller, Chief Engineer, of the American Institute of Steel Construction, has just started investigation of a new type of floor construction which is known as the "battleship deck" floor. This is a steel plate floor, which it is estimated, will give greater strength and stability to buildings, reduce the loads on the columns and therefore be especially valuable in skyscraper construction. Mr. Miller has given the following outline of this floor system:

The only reason for constructing a building is to provide a floor which can be protected from the weather by walls, windows and roof covering. The only reason for wanting a floor is to provide supports for a live load.

When the skyscraper came into existence it provided multiple tiers of floors, one above the other supported on a steel skeleton frame consisting of steel columns, girders and beams. At that time the steel industry furnished only the skeleton frame, which provided supports for the numerous floor panels. The industry stopped at this point and permitted the

general contractor, the architect and the engineer to devise some means of filling in the floor panels which were originally made of brick arches, later of flat tile arches, and still later of other types of material such as wood, packed floors, reinforced concrete and Gypsum.

At the inception of the multiple story tier building, the art of welding was unknown as it now exists, but the progress which has been made in this field has made possible the development of a type of steel floor which should meet every requirement that a floor construction is called upon to perform.

There is probably no part of a building structure which, under present conditions, has been more unsatisfactorily developed than the floor panel construction, and yet it is the one reason for having a building. Present methods of construction involve the use of material, in the floor panels, which constitute a dead load that is generally considerably more in weight than the live load which is to be supported. This excessive dead weight of the floor panels must be carried into the skeleton frame, girders and columns, and ultimately to the foundations. It is evident that one of the conditions which limits the heights of multiple story buildings will therefore be the capacity of the foundations to carry the dead load of the structure, which is greater than the calculated live loads. A reference to the column schedule of a multiple story building will reveal that the column stresses for dead loads are often approximately two-thirds of the total stress, the other third being live load.

By the use of steel plates and ordinary structural steel beams, it is proposed to develop a welded steel floor which will be better than any floor that has been used before, and will stand every service that it may be subjected to. It will be a floor in which it is possible to determine in advance, the stresses in all parts, and a floor that will recover instantly a full hundred per cent. of its deflection, due to live load when that load is removed. The one objection to such a floor system is that it has not been used before.

It is proposed to have 3, 4, 5 inch or other rolled I beams of whatever depth is found necessary, spaced 24 inches apart and spanning from girder to girder of the structural steel frame. Along the tops of these beams, will be laid continuous steel plate 3-16 or 1-4 inch in thickness, and wide enough to leave a space between their edges approximately 1-4 inch wide. The edges of the plates will be immediately over the center line of the webs of the small beams, and an automatic welding machine then works along this joint between the plates and welds the edges together, and at the same time welds them to the top flange of the beam immediately over the web. The result is

a built-up T section with the plate acting as the upper flange and the beam acting as the vertical part of the T. The neutral axis of the combined T section will be close to the top flange of the beam, and when the lower flange of the beam is stressed 18,000 per square inch, the plates and the top flange will have a stress of only 3000 to 4000 per square inch.

By using a 3 inch-5 7-10 I beam, and a 3-16 inch plate, such a floor construction will carry a total load of 190 per square foot on a 10 feet span with a deflection of .07 inch. The same floor will carry a total load of 85 per square foot on a 15 feet span with a deflection of .157 inch. The weight of the steel work including beam and plates for this floor, will be 10 1-2 per square foot.

By using a 5 inch 10 I beam spaced 2 feet centers, and a 1-4 inch plate, the combination will sustain a total load of 240 per square foot on a 15 feet span with a .098 inch deflection, and on a 20 feet span will support a total load of 135 per square foot with .174 inch deflection. The weight of the steel work in this floor will be 15 2-10 per foot.

It is, of course, assumed that this combination construction will be made continuous over the tops of the supporting girders, or by framing them into the girders flush on the top and have the floor plates continuous. The loads above given are based on fixed end supports, and the deflections are determined by the same basis.

The next question which arises is what will be the strength and deflection of the plates between the supporting I beams to which they are welded, which are 24 inches apart. A 1-4 inch plate will carry a uniformly distributed load of 562 per square foot, and have a deflection of .115 inch between the small beams. This plate will carry a load concentrated between the small beams of 750 per linear foot, and have a deflection of .057 inch. Under the same conditions the 3-16 inch plate will carry a uniform load of 316 per square foot, or a concentrated center load of 422 per linear foot. These loads are, of course, far in excess of what the T section will develop, and indicates that the floor construction is amply safe in both directions.

The cost of welding the bead between the edges of the plate and to the top of the beams has been estimated by different contractors, and one of them has stated that with automatic machinery it should be possible to deposit the bead weld for less than 2c per linear foot. Another contractor has stated that he is ready to enter a contract for this welding at between 3c and 4c per square foot of floor. Inasmuch as the welding will be done along a line, but a short distance from the neutral axis, the difficulty of the

floor curling up due to shrinkage will be practically negligible.

With this type of floor construction there is generated a solid steel deck which will act as a girder to prevent any torsional distortion of the building when subjected to wind or earthquake action. It will enable the engineer to select that part of his structure which is to carry the wind stresses to the foundations, and be assured that the deck flooring will deliver the stresses to the most rigid part of the vertical frame. The floor construction can be carried out into the walls to provide spandrel construction to support the outside walls. It will, of course, be necessary to fireproof such a floor when the combustible contents of the structure will generate a heat that will produce a temperature in the steel in excess of 1000 degrees F. This fire protection can be taken care of either by cast blocks of fireproofing inserted on the lower flange of the small beams, or by metal lath and plaster ceiling. Either type of construction will provide openings for conduits which can be carried along the main girders and transversely under the steel plates between the small beams. On the other hand if it is found advisable to do so, it will be possible to have a light fireproofing applied to the top of the steel plates and incorporating the various conduits which lay on top of the plates.

At the present time the specifications that are written to regulate the testing of floor construction, contemplate a fire on the upper surface. It has, however, been assumed that the filling which is put on top of the ordinary floor panels to cover conduits, acts as a fireproofing for the top flange of beams and girders. On the other hand, if our grate bars and furnace construction is a precedent, it should be possible to have a very considerable fire on the top of the steel plates without the temperature becoming dangerous. This is due to the fact that all heat generated from combustion will rise, and all air necessary to feed combustion must come from near the floor.

It will be possible to provide any form of treatment to the top surface of these plates, either mastic finish, linoleum, cork tile or other forms of coverings. The Armstrong Cork Company have stated that they recently took a contract for furnishing approximately 40,000 square feet of cork tile floor for the Cleveland Terminal Tower Building at a price of 42c per square foot. This cork tile is 3, 4, 6 or 12 in. square, and can be cemented to the top of the steel plates, providing any required Mosaic pattern, and giving a floor that will eliminate the necessity of rugs, except as ornaments.

The total cost of a floor constructed of 3 inch I beams, 3-16 inch plates, covered on the top with cork tile and fireproofed on the under side with metal lath and

plaster, will be in the neighborhood of \$1.00 per square foot. It should be remembered in this connection, however, that the cork tile flooring eliminates the necessity of any other floor coverings, which is always a part of a tenant's expense when using an ordinary concrete floor. The cost of a good quality Chenille carpet is from \$1.25 to \$1.50 per square foot, and the above referred floor system will cost complete less than the carpet, and eliminates its necessity.

It has already been stated that the objection to this floor is that there is no precedent for it, but this is not exactly true since the decks of battleships and the charging floors of our open hearth furnaces are all made with 3-16 inch to 1-4 inch plates, and are subjected to the most severe service that any floor can receive.

For bridge floor construction a combination of steel beams with checker plates could be assembled that would very materially reduce the dead load of the structure and provide a lateral rigidity more satisfactory than any lateral floor diagonal now used. It will be found that checker plate floors are used at the present time to take care of the wear on wood floor bridges, and the question of their being slippery has never been raised. In fact checker plate floors are used constantly for stair treads and landings.

This type of floor construction will weigh from 20 to 60 less than any of the existing types now in use, and in connection with a proposed 75-story building with floor panels 21 1-2 x 22 1-2 the saving in dead load on the foundations for each column will be nearly 2,000,000 lbs.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

Bascule, bent-eye, bulldozer, cantilever, club dolly, extrados, gantry, gib, goose-neck, gusset, hicky, jig, jumper, locus, lute, outhaul, pickling, pinny, puddle, purlin, rabbling, scribe snips, spandrel, strut, toggle, are among the more than 22,000 words used by structural steel engineers, which are defined in the "fact book" of the industry which is now being published by the American Institute of Steel Construction, Inc. The new volume includes a directory of fabricating shops in the United States, Canada, Mexico and Hawaii, in addition to presenting a statistical outline of the progress of steel

construction in the country. It will contain a list of the most recent and authoritative technical publications on structural steel and a bibliography of moving pictures illustrating the same subject.

Building of single family houses has been the outstanding development in the field of residential construction during the past decade in the United States, according to Dr. John M. Gries, author of one of the chapters of the survey of the National Bureau of Economic Research. The survey will be published shortly with the report of the Committee on Recent Economic Changes of the President's Unemployment Conference. Dr. Gries notes that the construction of two-family houses is steadily decreasing in importance.

"Construction of single houses," writes Dr. Gries, "made a quicker start in 1919 than the construction of apartments and held up better in 1920 and 1921. Families which had to find accommodations used their capital and credit to acquire homes, taking a risk of a possible fall in prices where investors hesitated to erect apartments."

"The post-war construction of one family houses reached its peak nationally in 1925, a year prior to the peak in multi-family structures. One family dwellings when not erected by the occupant, are almost always erected for sale rather than for rent. Overbuilding of this type in advance of immediate demand has resulted in various cities in violent curtailment of programs, such as a 50 per cent. reduction from one year to the next, but growth in demand has usually resulted in a fairly rapid recovery of more normal conditions."

"Careful surveys of annual vacancy were found by field investigation to stabilize this type of building fairly well in Utica, N. Y., and similar surveys are being undertaken in a growing number of cities."

"Overbuilding of apartments, which are built to rent does not have such an immediate effect upon new construction; even where new apartments are not needed they may be partly occupied, and they may be sold to investors who are not well informed as to local conditions."

"The desire of families to live in more satisfactory homes and surroundings has been the force behind the large home-building program. As has been customary, the new houses erected in and around cities have been for families in the upper income groups, with comparatively little construction for families in the lower groups which, for the most part, occupy older, less desirable structures."

"The private automobile and the bus, with improved roads, have greatly en-

larged the area within which dwellings may be located, and have permitted comparatively open developments in attractive locations to an extent that would not have been possible before the war. The demand for outdoor recreation favors the home situated away from the center of the city. The families' enlarged radius of movement due to the automobile, together with the neighborhood movie, the radio, and shorter working hours, strengthens the call toward the suburbs.

"In many cities the percentage of vacancies in run-down and undesirable dwellings, particularly in congested districts, has been mounting during recent years. It is reported that the diminished number of new immigrants has much to do with this situation. In a number of cities the construction of shacks or other forms of temporary dwellings, such as occurred soon after the war, has practically ceased.

"Although the lowest priced new houses being erected in many cities are out of reach of most families having less average incomes, they represent improved minimum standards as to light, air, and sanitary facilities. This is likely in the future to be reflected in better housing conditions, for the worst accommodations in use today are usually structures which, when erected, were far short of meeting the present minimum standards for new dwellings.

"Owing to the desire of well-to-do families to move into more modern quarters, families less well-to-do may in effect receive a subsidy through the ability to obtain second-hand houses at a discount greater than actual depreciation. A problem may arise as to the use of land now occupied by the poorer types of housing which are being vacated."

Dr. Gries was formerly chief of the division of building and housing of the Department of Commerce. The data which forms the basis of his chapter entitled "Construction" were gathered under his supervision and covers the years 1919-1927.

The survey was begun by the National Bureau of Economic Research in January, 1928. The Committee on Recent Economic Changes completed its examination of the survey data on March 2, 1929. The report and survey will be published in May under the title "Recent Economic Changes" by the McGraw-Hill Book Company.

The Committee on Recent Economic Changes is a continuation of the President's Unemployment Conference of 1921-23 which under a sub-committee on Business Cycles and Unemployment then made a report on booms and depressions. The Committee as now constituted consists of President Hoover, its chairman,

and the following: Walter F. Brown, Renick W. Dunlap, William Green, Julius Klein, John S. Lawrence, Max Mason, Adolph C. Miller, Lewis E. Pierson, John J. Raskob, A. W. Shaw, Louis J. Tabor, Daniel Willard, Geo. McFadden, Clarence M. Woolley, Owen D. Young, and Edward Eyre Hunt, Secretary.

VENTILATION HALTS MANY PLANT DISEASES

Greenhouses Create June Weather Artificially; Home Plants Need Air

Comfortable air conditions and good ventilation must be provided in greenhouses for the proper growing of food plants and flowers with as much thought and care as air conditioning in modern theatres, office buildings and public schools, according to leading horticultural experts who recently surveyed this trend among greenhouse operators throughout the United States.

Plants breathe just like human beings and often are even more sensitive to changes in temperature and humidity than any animal, the horticulturists declare. And whether the plants are tomatoes, cucumbers, strawberries or carnations, they require a certain amount of air motion to help them to grow healthy and strong. Tomatoes, cucumbers and other foods frequently spoil on the vine because of excess moisture in the air.

The result is that many of the more progressive greenhouse operators have installed air control systems to manufacture perfect June weather the year round. Powerful exhaust fans carry out moisture and bad air, while other distribute fresh air after it has been driven through heating and humidifying coils. Some greenhouses are even using ultra violet rays in connection with air conditioning for the enriching of the food values of vegetables on days when needed sunshine is absent. In addition to these facilities, the greenhouses provide, of course, artificial rain by means of sprinkler systems.

Louis Miller, widely known horticulturist of Toledo, pointed out that air motion is vital to the proper sustenance of the so-called "vine" plants, which spoil because of excess moisture without air motion.

"Air circulation is not quite so important to the leaf plants such as leaf lettuce which grows practically anywhere," Mr. Miller said.

Mr. Miller added that one of the most unusual applications of air conditioning in greenhouses is that tropical plants can be grown when the weather is zero outside. In this way, too, the greenhouses have conquered plant diseases.

A. G. Newhall and Dr. R. F. Poole of the Ohio agricultural experiment station

have found, for example, that the leaf mold disease which attacks tomato plants in greenhouses can be controlled by mechanical ventilation. The fungus which causes the mold, they said, requires a high degree of humidity to develop sufficiently to destroy the crop. They have been able to overcome the disease by removing excess moisture, the extent of which may be judged from the fact that a field of tomatoes under June conditions may give off 400 gallons an hour. Similar difficulties have been encountered with other crops grown in greenhouses during the winter months and the ventilation method is expected to have an even wider application, Dr. Poole said.

A method of simulating spring artificially in a modern version of the old family ice box is used at the Virginia department of agriculture and immigration, Richmond, for testing the germination of farm seeds. By a specially prepared chamber and an artificial refrigerator, controlled temperatures are obtained over test seeds in special boxes. Even the breezes of spring, so far as they are useful to the fields of farmers, are preserved through the action of cold water running through the apparatus and providing the air purification that takes place in open fields. Spring's sunshine is reproduced in its essential effects through an electric heater whose emanations are distributed from beneath a covering of water.

Ventilation in the dwelling is somewhat different than that in the greenhouse, and the plants are apt to suffer due to improper circulation of air. A little fresh air on warm days, with care taken to prevent sudden changes of temperature, and to avoid draughts, will go a long way toward success.

A light soil, as a rule, is generally to be preferred for most house plants, but the type of plant determines the character of soil to be used.

In potting, the main things to be considered are (1) press the soil firmly against the roots; (2) avoid injury of roots when the plant is transplanted; (3) provide for drainage and (4) allow room at the top of pot for water.

In general, flowers are grown in the garden for two purposes; namely, enjoyment of the flowers on the plants in the garden, and to provide for a succession of cut flowers to be used in the house. When grown for cut flowers, little thought is necessary as to their arrangement in the garden, the main idea being to give them plenty of room, so that they may develop good individual plants, thus insuring long stems. If they are grown for effect in the garden, some sort of plan should be made, keeping in mind colors, succession of bloom, flowering period, and average height of the plant.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS
Metalweld, Inc. ...26th and Hunting Park Ave., Phila.

AIR COMPRESSORS FOR HIRE
Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co.20th and Venango Sts., Phila.

AIR WASHERS
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS
Kerlow Steel Flooring Co.371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE
DeGiuseppe Art Marble Co.818 N. 48th St., Phila.

ARTESIAN WELLS
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.
Weber, F., Co.125 S. 12th St., Phila.
Weil, J. H., Co.1315 Cherry St., Phila.

ASBESTOS WALL PANELS
Howard Ketcham3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER
Blue Print Shop1520 Sansom St., Phila.
Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.
Weber, F., Co.125 S. 12th St., Phila.
Weil, J. H., Co.1315 Cherry St., Phila.

BOILER AND PIPE COVERING
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

BRICK
Cox, Janeway & Co.Real Estate Trust Bldg., Phila.
Ketcham, O. W.121 N. 18th St., Phila.

BUILDERS
Anthony Darin & Bros.5552 Master St., Phila.
Mitchell Bros.2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDING MATERIALS
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.
Warner Company1518 Walnut St., Phila.

BUILDERS' SUPPLIES
Service Supply Corp.20th & Venango Sts., Phila.

CABINET WORK
Huskey Mfg. Co.Columbia and Howard St., Phila.

CAISSONS
Foundation & Construction Co.1320 Race St., Phila.

CASEMENTS (Window or Door)
DePett Casements900 Chestnut St., Phila.

CAULKING
Malia, Thos. J.226-32 W. Mentor St., Phila.
Jules H. Rosenberg2313 Walnut St., Phila.

CAST STONE
Cast Stone Products Co.,
25th and B. & O. R. R., Wilmington, Del.
New Jersey Cast Stone Co.Vineland, N. J.

CEMENT WORK
D'Lauro, John7732 Ardleigh St., Phila.
Massiah, Frederick. Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

COLUMNS (Metal)
Pearce Fireproof Co.1911 N. 2nd St., Phila.

CONCRETE WORK
Massiah, Frederick. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Service Supply Co.20th and Venango Sts., Phila.

CORK TILE
Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.

DAILY BUILDING NEWS
Building News Pub. Co.1530 Chestnut St., Phila.

DAMP-PROOFING
Anti-Hydro Waterproofing Co.,
1518 Walnut St., Phila.
Barnett Bingswanger, Jr.829 N. 3rd St., Phila.
Hydroseal Waterproofing Co.829 N. 3rd St., Phila.

DISMANTLING
Industrial Dismantling Co.,
2500 E. Huntingdon St., Phila.

DOOR BEDS
Murphy Door Bed Co.Lewis Bldg., Phila.

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Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.
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Weil, J. H., Co.1315 Cherry St., Phila.

ELECTRICAL CONTRACTOR
W. V. Pangborne & Co.,
1927-29 W. Montgomery Ave., Phila.

ELECTRIC HEATERS
Steinmetz & Co., Inc.1204 Morris Bldg., Phila.

ELECTRICAL REFRIGERATION
Philadelphia Gas Range Co.1026 Arch St., Phila.

ELECTRIC SAWS
Crowe Safety Saw Sales Corp.,
515 Real Estate Trust Bldg., Phila.

FENCES
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS
Frank W. Butterworth1518 Walnut St., Phila.

FIREPROOFING
Pearce Fireproof Co.1911 N. 2nd St., Phila.

FLAG POLES
J. E. Lingo & Son, Inc.Camden, N. J.

FLOORING COMPOSITION (Mineral)
Selby, Battersby & Co.810 Noble St., Phila.

FLOOR HARDENER
Anti-Hydro Waterproofing Co.1518 Walnut St., Phila.
Hydroseal Waterproofing Co.829 N. 3rd St., Phila.

FLOORING (Cork)
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.
Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.
Selby, Battersby & Co.810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)
Selby, Battersby & Co.810 Noble St., Phila.

FLOORING (Rubber Tile)
Hamilton Rubber Mfg. Co.Lafayette Bldg., Phila.
Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.
Selby, Battersby & Co.810 Noble St., Phila.

FLOORING (Steel)
Kerlow Steel Flooring Co.371 Drexel Bldg., Phila.

FLUE LINING
Clausen, Wm. H.27th and Diamond Sts., Phila.

FOUNDATIONS
Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES
Philadelphia Gas Range Co.1026 Arch St., Phila.

GRATINGS
Kerlow Steel Flooring Co.371 Drexel Bldg., Phila.

GUARDS (Machine and Engine)
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

HEATING CONTRACTORS
Bowers Bros. & Co.2015 Sansom St., Phila.

HOLLOW TILE
Clausen, Wm. H.27th and Diamond Sts., Phila.
Cox, Janeway & Co.Real Estate Trust Bldg., Phila.
Ketcham, O. W.121 N. 18th St., Phila.

INSURANCE
Insurance Co. of North America1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.
Simpson-Anderson Co.Widener Bldg., Phila.
Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)
Henry A. Hitner's Sons Co.,
Gaul and Huntingdon St., Phila.
Lederle, Robt. B., & Co.Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co.2500 Duncan St., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

KITCHEN CABINETS
Philadelphia Gas Range Co.1026 Arch St., Phila.

LEVELS
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Weber, F., Co.125 S. 12th St., Phila.
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Entered at the Philadelphia Post Office as Second-Class Matter

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June 5, 1929

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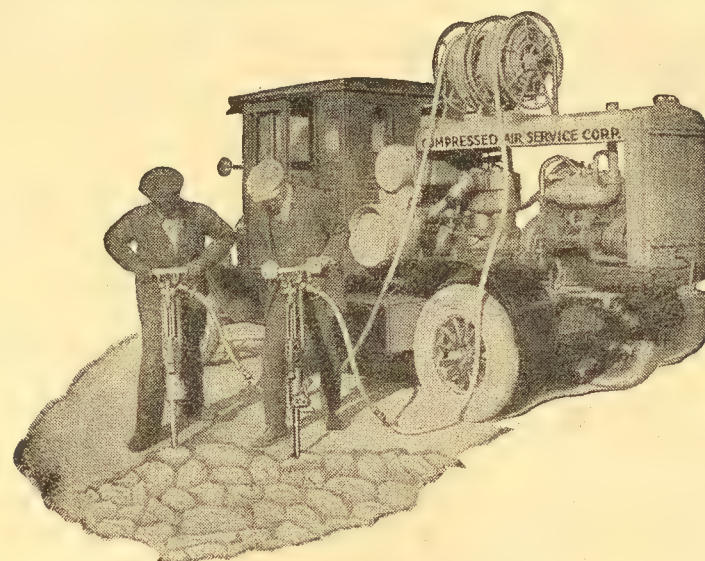
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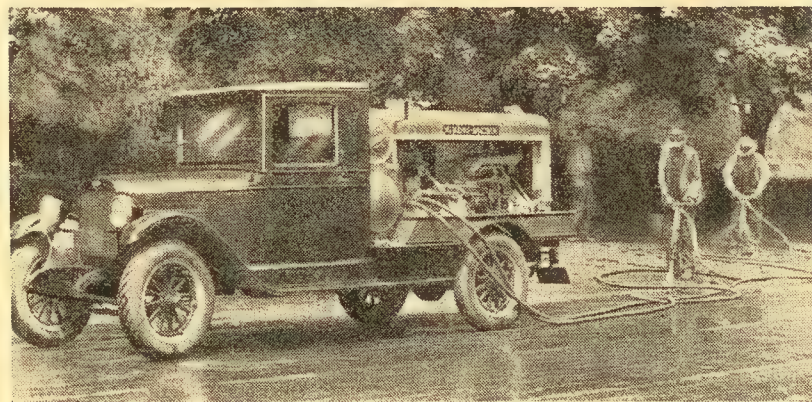
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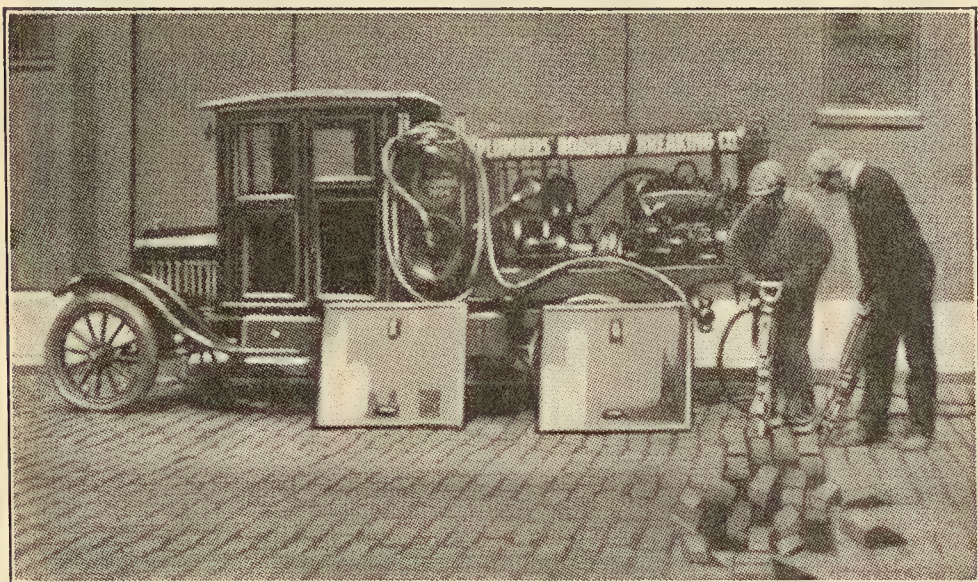
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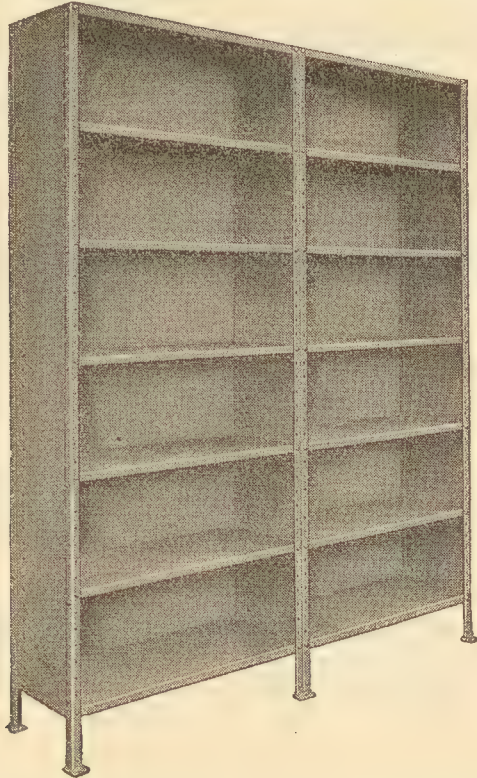
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Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 23

PHILADELPHIA
June 5, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY
BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Gymnasium and Recreation Building, Philadelphia. Preliminary plans in progress. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, United Presbyterian Church, care of architect. Stone, 85x50 feet.

Sales and Service Station, 4846 Chestnut street, Philadelphia. Plans about completed. Architect, E. A. Stopper, 10 South Eighth street, Philadelphia. Owners, Block Weiss Realty Co., care of West Philadelphia Sales Co., on premises. Brick, steel, concrete, second floor add., 50x200 feet.

Store Building (5- and 10-cent), \$65,000. Frankford avenue and Granite street, Philadelphia. Plans nearly completed. Architect, J. E. Sexton, Engineering Division, S. S. Kresge, Detroit, Mich. Owner, S. S. Kresge, Detroit, Mich. Brick, steel, limestone, 2 stories and basement.

Store and Service Building, Southeast Corner Broad and Cheltenham avenue, Philadelphia. Architect, private plans. Owner, name withheld. Brick, 1 story, 120x50 feet, slag roof, electric light, cement work. S. H. Levin, 1619 Sansom street, Philadelphia, taking revised sub-bids.

Residence and Garages (3), Wayne and Washington lane, Philadelphia. Owner taking sub-bids. Architect, J. W. Keyes, Otis Building, Philadelphia. Owner, Samuel Golder, 1420 South Penn Square, Philadelphia. Store, 2½ stories, 22x70 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. C. J. Short, 1517 Pine street, will build.

Residences (2), East side Wharton Drive, North of Henry avenue, Philadelphia. Archi-

tect, W. H. Henkels, 1421 Chestnut street, Philadelphia. Owner, Willard Benham, 5213 Chestnut street, Philadelphia. Stone, 2½ stories, 32x05 feet, slate roof, hardwood floors, iron work, electric light, hot water heat, tile work, rolled steel sash. Owner taking sub-bids due as soon as possible.

Bank Building (add.), Second and Chestnut streets, Philadelphia. Plans in progress. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Corn Exchange National Bank & Trust Co., Charles S. Calwell, president, on premises.

Restaurant, 1838 Market street, Philadelphia. Preliminary plans in progress. Architect, I. Demchick, 1701 Chestnut street, Philadelphia. Owners, Linton Lunch, Broad and Wallace streets, Philadelphia. Brick, steel, limestone, 2 stories.

Gymnasium and Recreation Building, Philadelphia. Preliminary plans in progress. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owners, Social Settlement House, care of architect. Brick, 75x35 feet.

Store and Apartment, Chestnut Hill, Pa. Architect taking bids due June 7th. Architect, John W. Keyes, Otis Building, Philadelphia. Owner, J. L. Gillies, care of architect. Brick, steel, 2 stories and basement.

Patrol House, Twenty-eighth street, near Oxford street, Philadelphia. Owners taking bids due June 14th, 11 A. M. (Eastern Standard Time). City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia. General construction, lighting, plumb-

ing, heating. Deposit, \$5, refunded. Certified check, 5 per cent.

Factory (add.), Percy and Green streets, Philadelphia. Architects taking revised bids due June 7th. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Atlas Electric Co., 916 Green street, Philadelphia. Brick, steel, 1 story, 15x76 feet, slag roof, cement floors, steam heat, electric light, metal lath, rolled steel skylights, ornamental iron work, cinder concrete block, caulking, plumbing.

School (add.), Sixty-eighth and City Line, Overbrook, Philadelphia. Plans ready for bidders in one week. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Friends' Central School, Dr. B. L. Jones, president, on premises. Concrete block, stucco, 2 stories.

Buildings (5), Girard Point, Pa. Owners taking bids due June 10th. Architect, Edward B. Lee, Chamber of Commerce Building, Pittsburgh, Pa. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Brick, reinforced concrete, steel, 1 story, 60x95 feet, 40x100 feet, slag roof, cement floors.

Apartment House, Keswyn and Oxford avenue, Philadelphia. Owners taking bids. Architects, Thalheimer & Weitz, 10 South Eighth street, Philadelphia. Owners, Kenwyn Apartments Co., care of A. I. Fink, 632 Land Title Building, Philadelphia. Brick, steel, 4 stories and basement, 96x37 feet, 82x46 feet, slag roof, oak, pine and cement floors, metal lath, ornamental iron work, tile work.

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North and South sides, West of Crawford avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Gilham Homesche, 4018 Brown street, Philadelphia. Brick, 2 stories, 16x2 5feet, 12x9 feet, slag roof, hardwood and pine floors, electric light.

Stores, \$2,500. East side Stenton avenue, South of Phil-Ellena street, Philadelphia. Permit issued. Architect, private plans. Owner, John Uher, Stenton and Mt. Pleasant avenues, Philadelphia. Brick, 1 story, 16x60 feet, slag roof, pine floors, electric work.

Contract 216, Sub-Station No. 7, Juniper, South of Pine street, Philadelphia. Owners taking bids due June 12th, 11 A. M. (Eastern Standard Time). Owners, Department of City Transit, City Hall Annex, Philadelphia. Plumbing in Sub-Station No. 7. Toilet room in general repair shop.

Fire Engine and Truck Building, Eighty-second and Tinticum avenue, Philadelphia. Low bidders. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, Bureau of Property, City Hall, Philadelphia. General, Robbins Contracting Co., 1137 North Front street, Philadelphia, \$75,835; McCormick-Lenham, Fortieth and Chestnut streets, Philadelphia, \$78,981. Electric, Independent Wiring Co., 1613 Sansom street, Philadelphia, \$2,300. Plumbing, Fred G. Wackenhut, 2416 Frankford avenue, Philadelphia, \$4,175. Heating, Fred G. Wackenhut, 2416 Frankford avenue, Philadelphia, \$3,479. Drainage, A. Curado, 5920 Magnolia avenue, Philadelphia, \$1,349.

Miscellaneous Work. Low bidders. Philadelphia City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Works, Bureau of City Property, Philadelphia. Fire house, Tenth and Commerce streets, Philadelphia, E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, \$832. Northeast Corridor of City Hall Annex, Philadelphia, George F. Dobbins, 1020 South Forty-seventh street, Philadelphia, \$3,860; electric, Sulzer & Co., 225 North Eleventh street, Philadelphia, \$4,000. Guard house, Durham Park, John Devlin, Hancock and Thompson streets, Philadelphia, \$2,727. Lexington avenue, Ryan and Rhawn streets, country road improving, Frank Mark Construction Co., N and Wingohocking streets, \$12,711.50. Improving intersection of Twenty-fourth and Gray's Ferry avenue, Atlas Paving Co., 317 South Sixth street, Philadelphia, \$3,874.90. Girard, Schuylkill River to Thirty-eighth street, Joseph Salvucci, 512 North Sixty-fifth street, Philadelphia, \$16,340.30. Seventeenth street, Ridge and Oxford, F. A. Canuso & Son, 804 South Twelfth street, Philadelphia, \$12,707.73.

Sub-Station, Contract No. 215. Juniper, South of Pine street, Philadelphia. Low bidder: Kober Construction Co., 1616 West

Thompson street, Philadelphia, \$132,379; I. S. Grindrod, 10 South Eighteenth street, Philadelphia, \$135,530.50. Owners, Department of City Transit, City Hall Annex, Philadelphia. Brick, steel, terra cotta, 2 stories and basement, 80x80 feet.

Lodge Building (alts, and add.), 415 Fountain street, Roxborough Philadelphia. Architect will take general bids in two weeks. Architect, Charles Walter Maslin, 428 Roxborough avenue, Philadelphia. Owner, Camp No. 111, P. O. S. of A., on premises. Remodeling old residence into lodge building.

Store and Office Building, 9 South 16th st., Philadelphia. Architect taking bids. Architect, Thalheimer & Weitz, 10 South 18th st., Philadelphia. Owner, Ellis Import Company, John Ellis, 126 North Delaware avenue, Philadelphia. Granite, lime stone, steel, brick, 2 stories and mezzanine, 18x96 feet.

Pennsylvania Railroad, C. E. Walsh, 15 N. 32nd street, Philadelphia, taking bids due June 11th on Contract No 26 for structural steel.

Stores (5), 35-43 Armat street, Philadelphia. Work contemplated. Owner, Heyman & Bro., 213 South Broad street, Philadelphia. Brick, one story.

Patrol House, 28th street near Oxford street, Philadelphia. Owner taking bids due June 14, 11 A. M., Standard Time. City Architect, Wm. S. Covell, City Hall Annex, Philadelphia. Owner, Dept. of Public Safety, 215 City Hall, Philadelphia.

Conrad Schmitt Studios, of Milwaukee, wish to announce that for the purpose of closer contact in the East, they have opened an Eastern Studio in New York City at 11 West Forty-second Street, under the personal direction of Mr. Edward J. Schmitt (telephone Pennsylvania 0405), and have discontinued their Philadelphia office; Miss Bond, Philadelphia Representative of the Conrad Schmitt Studios, can be reached through the New York Studio.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Apartment House, Northeast Corner Thirty-sixth and Chestnut streets, Philadelphia. Contract awarded Graham-Chambley Co., 3649 Filbert street, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, name withheld. Brick, steel, cast stone, 18 stories and basement, 100x110 feet, concrete and slag roof, oak and pine, cement floors, elevators, plumbing, vacuum heating, electric light, metal lath, tile and marble work, iron stairs, ornamental iron work, architectural terra cotta, linoleum floors. Contractor taking sub-bids due June 8th.

Parochial School and Chapel, Walnut lane, Limekiln pike, Cedar Park avenue, Philadelphia. Contract awarded Farrell-Roth Construction Co., 21 South Forty-sixth street, Philadelphia. Architect, T. J. Early, 402 Harrison Building, Philadelphia. Owners, St. Athanasius Roman Catholic Church, Rev. T. L. Clooney, on premises. Stone, concrete, steel, 2 stories and basement, 176x100 feet, slate roof, cement and maple floors, hollow tile, architectural terra cotta, waterproofing and dampproofing, metal lath, tile and marble work, casement windows, ornamental iron work.

Store Building, 4441-49 Frankford avenue, Philadelphia. Contract awarded C. J. Greenwood, 3907 North Broad street, Philadelphia. Architect, Edgar A. Wightman, Bankers' Trust Building, Philadelphia. Owner, Sidney K. Allman, Finance Building, Philadelphia. Brick, steel, architectural terra cotta, 1 story and basement, 63x100 feet, bond, excavation, demolition, cement floors, dampproofing, iron work, rolled steel sash and skylights, slag roof, maple floors, plastering, metal lath (store fixtures, heating, electric work, plumbing, sprinkler system reserved).

Operating Pavilion, \$17,500. Broad and Ritner streets, Philadelphia. Contract awarded Cramp & Co., Denckla Building, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Methodist Hospital, Broad and Ritner streets, Philadelphia. Brick, steel, additional story, 125x105 feet, gypsum slag roof, cement floors, steam heat, electric light, metal lath, tile, marble and terrazzo work, ornamental iron work.

Warehouse and Office Building, Southeast Corner Twenty-fourth and Chancellor streets, Philadelphia. Contract awarded William F. Newberry Company, Otis Building, Philadel-

phia. Owners, Woodfield-Thompson Co., 2105 Chancellor street, Philadelphia. Brick, steel, 2 stories, 110x20 feet, slag and wood deck roof, cement and composition floors, rolled steel sash, ornamental iron work.

Store, 1527 South street, also 1528 Rodman street, Philadelphia. Contract awarded S. Yellin & Son, 222 North Eleventh street, Philadelphia. Architect, private plans. Owners, Joseph Kessler & Son, 1413 South street, Philadelphia. Brick, limestone, cast stone, alternate, steam heat, electric light, slag roof, metal lath, terrazzo work, vitrolite, treadlite.

Residence (alts. and add.), 6836 Anderson street, Stenton, Philadelphia. Contract awarded J. R. Schaffer, 3010 North Eighth street, Philadelphia. Architect, Joseph F. Lowery, Land Title Building, Philadelphia. Owner, J. F. Blizard, 6836 Anderson street, Philadelphia. Bond, tile work, hot water heat, electric light, plumbing, carpentry, mill work, concrete and cement work, brick work, steel work.

Banquet Hall (alts. and add.), 1811-13-15 Spring Garden street, Philadelphia. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia. Engineer, J. H. Byerly, Upper Darby, Pa. Owners, D. F. McCallister & Son, on premises. Brick work, cement work, vapor heat, electric light, rolled steel sash, plumbing, composition floors, mill work, plastering.

Residence, 6516 Lincoln Drive, Philadelphia. Contract awarded Ralph E. Borthwick, 6511 North Woodstock street, Philadelphia. Work to start July 1st. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Mrs. C. H. Kulmer, on premises. Stone, cinder block, stucco, 2½ stories, shingle roof, general alterations, changing partitions, hot water heat.

Building (alts. and add.), 410-14 North Sixty-third street, Philadelphia. Contract awarded S. Yellin, 222 North Eleventh street, Philadelphia. Architect, Joseph Margolis, Bankers' Trust Building, Philadelphia. Owner, A. M. Greenfield, Bankers' Trust Building, Philadelphia. Carpentry and mill work, plastering, painting, glazing, plumbing, plate glass, cement work, metal lath, tile work.

Apartment House, \$150,000. 2809 West Queen lane, Philadelphia. Contract awarded Bernhard Watman, 617 Real Estate Trust Building, Philadelphia. Architect, William A. Young, 253 South Ninth street, Philadelphia.

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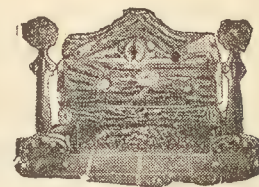
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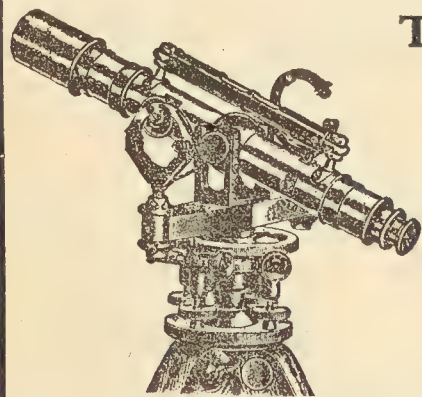
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feet, 59x73 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work.

Manufacturing Building, \$190,000. Paschall avenue, West of Fifty-sixth street, Philadelphia. Contract awarded Barrett & Hilp, Fifty-sixth and Paschall avenue, Philadelphia. Architect, Leland S. Rosener, San Francisco, Calif. Owners, Federal Container Co., on premises. Reinforced concrete and steel, 2 stories, 47x324 feet, 90x324 feet.

Residence, \$10,000. 5810 Woodbine avenue, Philadelphia. Contract awarded Harry Bobb, 6232 Cedar street, Philadelphia. Architect, private plans. Owner, Jennie K. Bodek, 5161 Whittaker street, Philadelphia. Stone, 2 stories, 37x30 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Coal Siding, \$4,000. Northwest Corner Thompson and Belmont avenue, Philadelphia. Contract awarded William N. Thompson, 1920 Cherry street, Philadelphia. Owners, Pennsylvania Railroad Company, 15 North Thirty-second street, Philadelphia.

Store (alts.), \$3,500. Northeast Corner Broad and Arch streets, Philadelphia. Contract awarded F. A. Havens Co., 845 North Nineteenth street, Philadelphia. Owners, Liberty Title & Trust Co., on premises. General alterations.

Store (add.), \$10,000. 1122 Chestnut street, Philadelphia. Contract awarded Frank G. Stewart, 1520 Locust street, Philadelphia. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owners, B. F. Dewees Co., 1122 Chestnut street, Philadelphia. Brick, fifth floor add., 24x150 feet.

Residence and Store (alts.), \$2,500. 1811 South street, Philadelphia. Contract awarded Lancaster Building Co., 3935 Lancaster avenue, Philadelphia. Architect, private plans. Owners, Greenberg & Reese, 1508 South street, Philadelphia. General alterations.

Miscellaneous Work. Contracts awarded. Owners, Department of Public Works, Bureau of Engineering and Surveys, Philadelphia. Fortieth street, Market to Ludlow street, J. Joseph McHugh, 1617 Race street, Philadelphia, \$4,432.05. Fraley, Eadom to James, A. Curado, 5920 Magnolia street, \$1,742.65. Mercer, Tioga to Summitt, North, A. Curado, 5920 Magnolia street, Philadelphia, \$2,139. Sansom, Thirty-ninth to Fortieth, Trio Construction Co., 212 North Sixty-fifth street, \$7,334.75. Sixty-eighth avenue, Wyncote to Ogontz, Leva Brothers, 104 West Gale street, Philadelphia, \$2,152.20. Tulpehocken, Ogontz to Woolston, Leva Brothers, 104 West Gale street, Philadelphia, \$22,038.75. Fifty-sixth, Schuylkill River, 193 feet West of Bulkhead Line, Joseph & Robert Lombardi, Lincoln Building, Philadelphia, \$34,560. Sewage Dis-

posal Project, Tacony Creek, Pa., James T. McDonald, 2313 South Front street, Philadelphia, \$6,291.75. Hunting Park avenue, bridge over Philadelphia-Bustleton pike, Mundy Paving & Construction Co., 226 South Warnock street, Philadelphia, \$62,700. Alma, Bleigh, Elgin, Castor, Cottman, etc., Morrissey Brothers, 4336 North Marshall street, Philadelphia, \$2,578.95. Twentieth, Olney to Belfield, James F. Malloy, Point Breeze and Mifflin street, \$4,510.36. Hobart, Melvin, Wanamaker, Colman, Malvern, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$9,673.26. Catherine, Broad to Sixth street, Union Paving Co., 123 South Twenty-first street, \$49,879.30. Catherine, Gray's Ferry to Broad street, Eastern Asphalt Co., Pennsylvania Building, \$27,299.05. Hazel, Sixtieth, Sixty-second and Larchwood streets, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$8,360.38. Intersection, Conlyn and Woodstock, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$1,391.67. Oakford, Twenty-second to Twenty-third, Municipal Paving Co., Second and Wingohocking streets, \$4,985.23; Municipal Paving Co., Second and Wingohocking streets, \$16,970.25. Poplar, Ridge, Twentieth, Twenty-fourth, Ringgold, Race, Vine, Twentieth, Twenty-first, Twenty-second, Twenty-third, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$11,225.95. Reed street, Fifteenth to Seventeenth, Montgomery Paving Co., Harrison Building, Philadelphia, \$9,981.35. Eighth street, Wolf to Ritner street, Municipal Paving Co., Second and Wingohocking streets, \$5,389.06. Allegheny, Twenty-second to Ridge avenue, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$63,943. Richmond, Erie, Orthodox, Wheatsheaf, Juniata, G. C. Centrone, Bailey Building, Philadelphia, \$46,838.30. Furnish and deliver ready-mixed concrete, Warner Co., 1518 Walnut street, Philadelphia, \$2,000.

Pennsylvania Construction News

Church, Sunday School and Parsonage, Chambersburg, Pa. Architect selected. Too early for details. Architect, Office of J. B. Thomson, 1321 Arch street, Philadelphia. Owners, King Street United Brethren Church, Rev. Clyde W. Meadows, Chambersburg, Pa.

Building, Bethlehem, Pa. Preliminary plans in progress. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian College, 87 West Church street, Bethlehem, Pa. Fireproof, 3 stories, 80x100 feet.

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Church, \$60,000. Scranton, Pa. Architect selected. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, Lutheran Church, Scranton, Pa.

Schools (alts.), Chain and Hartrast Schools, Norristown, Pa. Plans in progress. Owners will take bids in about one month. Architect, E. Lane Crawford, Norristown, Pa. Owners, School Board of Norristown, N. R. Kratz, Norristown, Pa. Fire escape and fire doors, general repairs.

Gas Service Station, Wilkes-Barre, Pa. Plans in progress. Owners will take bids. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, High Grade Gas & Oil Co., 108 East Northampton street, Wilkes-Barre, Pa. Brick, concrete block, 1 story, 1x512 feet, asbestos roof, concrete floors, electric light.

Church, Georgetown, Pa. Architect will be ready for bids next week. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, St. John the Baptist Greek Catholic Church, care of architect. Brick veneer, 1 story and basement, 40x160 feet, slate roof, yellow pine floors, electric light, tile work.

Gas Station, Nanticoke, Pa. Owners ready for bids due no set date. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, High Grade Gas & Oil Co., 108 East Northampton street, Wilkes-Barre, Pa. Brick, concrete block, 1 story, 12x13 feet, asbestos roof, concrete floors, electric light.

Store, Ardmore, Pa. Plans will be ready for bids in a few days. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owners, Suburban Co., Ardmore, Pa. Brick, stone, 1 and 2 stories, slag roof, pine and tile floors, plumbing, structural steel, metal ceilings, electric light, tile and marble work, bronze grills, plate glass.

Residences (19), \$79,800. 21-39 Hartranst avenue, Norristown, Pa. Owners will build. Owners, William F. & E. C. Tauble, Norristown, Pa. Cement block, 2 stories, 15x43 feet, slag roof, hardwood floors, hot water heat, electric light, tile work.

Store and Apartment, Allentown, Pa. Plans in progress. Owner will build. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, James Munjone, Seventh and Chew streets, Allentown, Pa. Brick, 2 stories, 20x100 feet, slag roof, pine floors, vapor heat, electric light, tile work.

Gasoline Station and Garage, between Northampton and Bethlehem, Pa. Owner will build. Architect, E. T. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Harry Miller, Northampton, Pa. Brick, 2 stories and base-

ment, 58x60 feet, asbestos shingle roof, concrete and pine floors, vapor heat, electric light, steel sash.

Office Building (alts.), Scranton Electric Building, Scranton, Pa. Architects will be ready for bids in ten days. Architects, E. H. Davis & George M. D. Lewis, Board of Trade Building, Scranton, Pa. Owners, Scranton Electric Co., Board of Trade Building, Scranton, Pa. General interior alterations.

Bank, Scranton, Pa. Architect will be ready for bids in two weeks. Architect, D. H. Morgan, Union Bank Building, Scranton, Pa. Owners, East Scranton State Bank, care of E. H. Hausser, 1417 Ash street, Scranton, Pa. Limestone, veneer, steel, 22 stories, 35x60 feet, slag roof, marble floors, electric work, tile, marble, casement windows, bronze work, bond.

Residence and Garage, Highland, East of Wallingford avenue, Moylan, Pa. Plans will be ready for bidders in two weeks. Architect, Foster B. Simmons, Media, Pa. Owner, John T. Rife, 19 North Fifth street, Philadelphia. Stone, frame, 2½ stories, 30x45 feet, 20x24 feet, shingle roof, hardwood floors, hot water heat, electric light.

Grade School, Twin Oaks, Pa. Plans completed. Owners ready for bids. Architect, F. C. Watson, Crozer Building, Chester, Pa. Owners, Upper Chichester Township School District, G. M. Snyder, Marcus Hook, Pa. Brick, 1 story, 35x100 feet, slag roof, maple floors, steam heat.

Farview Grade School, near Reading, Cumru Township, Pa. Owners will be ready for bids June 1st. Architect, H. V. Patterson, R. D. 2, Sinking Spring, Pa. Owners, Cumru Township School Board, Pierce Schenour, Gouglersville, Pa. Brick, semi-fireproof, 2 stories, 12 to 16 rooms.

Apartment House, Drexel Hill, Pa. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owners, Reo Vesta Corporation, care of architect. Brick, cast stone, steel, 4 stories, irregular in size, slag roof, oak and pine floors, steam heat, electric light, tile work, metal lath, tile work, ornamental iron work. Owners taking bids due as soon as possible.

Residence, Johnsville, Bucks County, Pa. Owner taking bids due June 7th. Architect, private plans. Owner, Joseph Longhead, Johnsville, Pa. Brick, steel, 2½ stories and basement, 28x33 feet, slate roof, oak and pine floors, plumbing, hot water heat, electric light, tile work.

School, West Reading, Pa. Architects taking bids due June 11th. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Roman Catholic Church, Rev. J. Wachter, Wyom-

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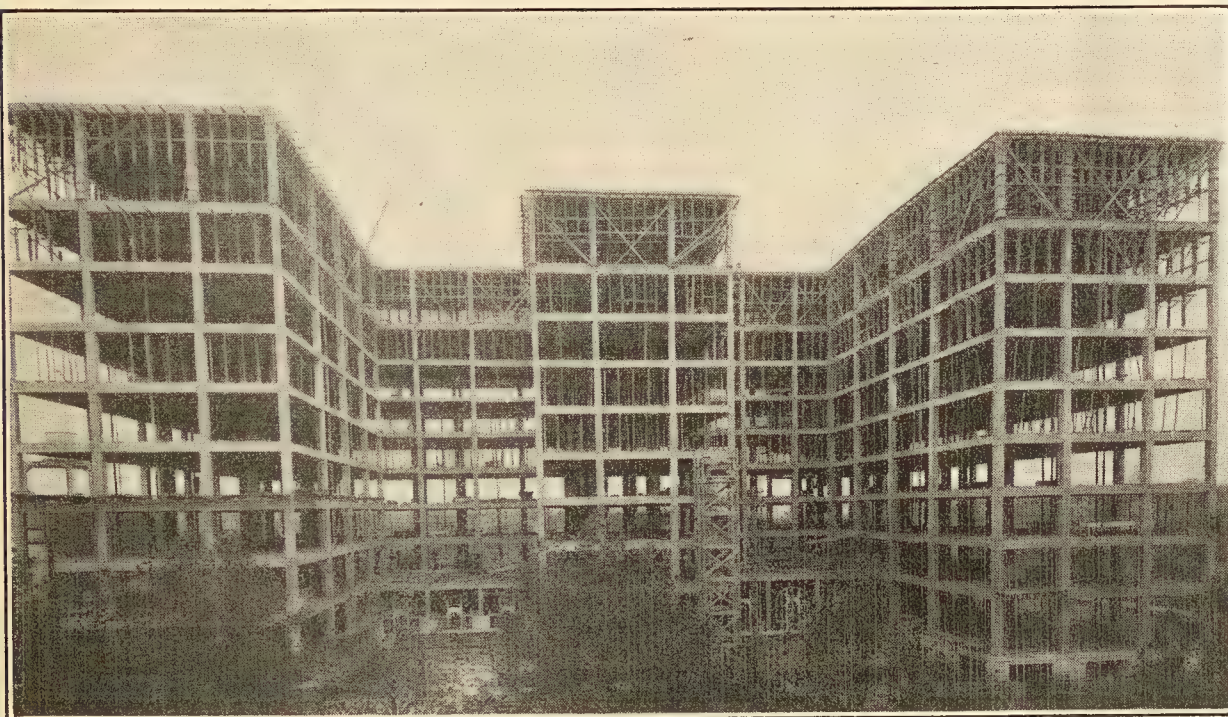
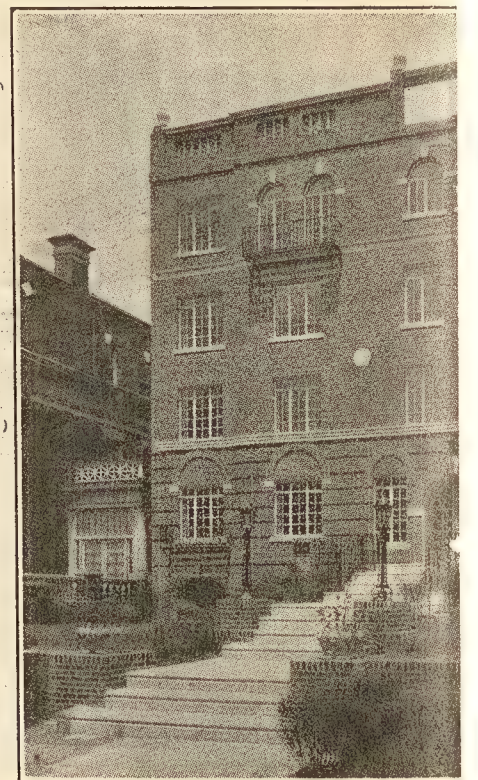
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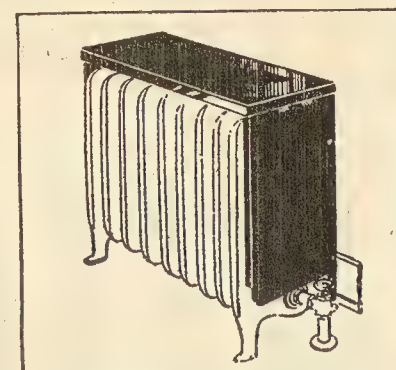
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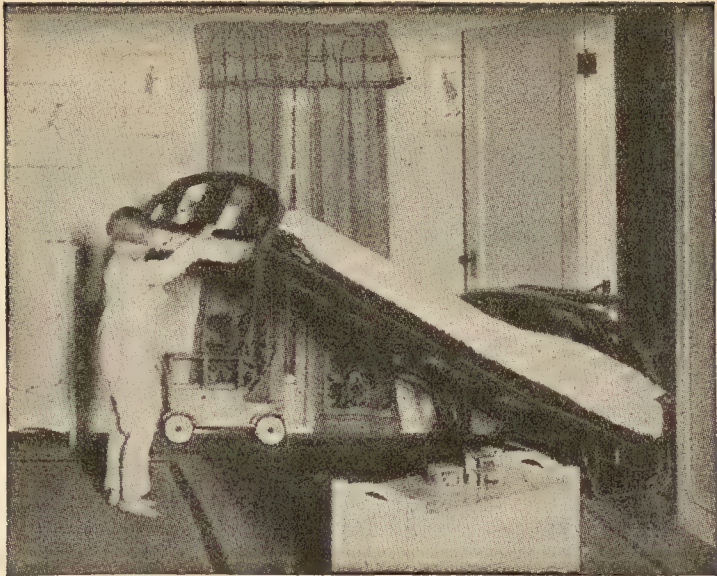
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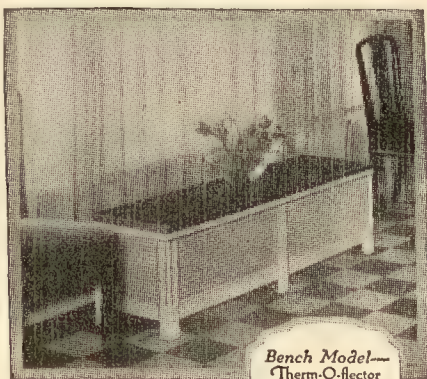
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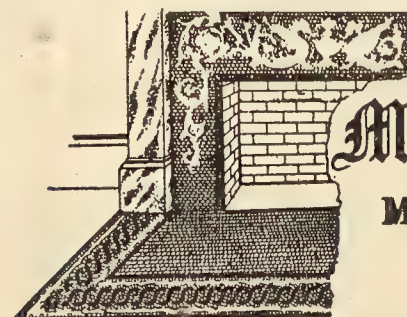
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sing, Pa. Brick, steel, 2 stories and basement, 120x60 feet, 45x70 feet, Barrett A. A. roof, linoleum and pine floors, safety treads, steel sash, electric light.

School (alts.), (Free Street), Ridley Park, Pa. Owners taking bids due June 7th, 8 P. M. Engineer, H. H. Newberg, 416 Hammon street, Ridley Park, Pa. Owners, Board of Education, H. M. Davis, Ridley Park, Pa. Changing second floor auditorium to library and two class rooms. Plans and specifications on file in office of school (Free Street) and may be examined by bidders any school day between 9 A. M. and 3 P. M.

Montgomery County Home for Poor, R. D., Royersford, Pa. Owners, Directors of Montgomery County Poor District, W. C. Irvin, Controller; M. L. Horn, superintendent, on premises. Laying magnesite compo flooring, base wainscoting. Owners taking bids due June 6th, 9 A. M. (Eastern Standard Time). Plans and specifications from Superintendent Horn, who will receive bids.

Residence and Garage, Fort Washington, Pa. Architect taking bids due June 10th. Architects, Thomas, Martin, Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, C. Jared Ingersoll, on premises. Brick, cinder block, 2½ stories and basement, 125x34 feet, shingle roof, cork tile, cement, pine, oak, linoleum floors (plumbing, heating, electric separate), metal lath, tile and marble work, integral waterproofing, ornamental iron work, area gratings, cinder concrete block, excavation.

School (alts.), Shenandoah, Pa. Owners taking bids due June 10th. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Shenandoah School Board, Dr. N. C. Brennan, president, 13 South Main street, and J. D. Creary, secretary, South West street, Shenandoah, Pa. Pine floors, concrete work, iron work, new plumbing, electric work, heating, blackboards.

South Building No. 2, Harrisburg, Pa. Owner taking bids due June 25, 2 P. M., Standard Time. Architect, Gehron & Ross, 101 Park avenue, New York. Architect, Gehron & Ross, 101 Parke avenue, New York. Owner, Frank St. Clair, Engineer, Department of Property, Commonwealth of Pennsylvania; B. E. Taylor, Secretary, Harrisburg, Pa. No. 1—Preparation of site: excavation, concrete foundations, structural steel, reinforced concrete, fireproofing, granite, lime stone, brick, interior partitions, plastering, models, plaster, cast and sculptor work, waterproofing, marble, terrazzo work, miscellaneous iron work, stained glass for toilet room, roofing, skylights, metal window frame and sash, hollow metal interior

door partitions, painting, glazing, carpentry and interior cabinet work; hardware, ornamental bronze and light iron work, mail chute; No. 2—heating and ventilating; No. 3—electric; No. 4—plumbing and drainage; No. 5—electric elevator and dumbwaiters. Plans and specification from Engineer on deposit of \$50, refunded. Certified check 10 per cent for bids of \$500,000 or over; certified check 20 per cent for bids less than \$500,000 bond.

Children's Pavilion, Eaglesville, Pa. Architect taking bids due June 10th. Architect, Simon & Simon, Fidelity-Philadelphia Trust Building, Philadelphia. Owner, Eaglesville Sanatorium, Eaglesville, Pa. Brick, concrete, lime stone stucco, 2 stories and basement, 145 x45 feet, slag roof, cement floors, steam heat, electric light, tile work, bond, ornamental iron work.

Sunday School, \$50,000, Bloomsburg, Pa. Owner taking bids due June 13. Architect, Geo. E. Savage, Witherspoon Building, Phila. Owner, Bloomsburg Reformed Congregation, Rev. J. C. Baumbach, 115 East 3rd street, Bloomsburg, Pa. Stone, 2 story and basement, slate roof, maple floors.

Residence (add.), Wallingford, Pa. Architect taking bids due as soon as possible. Architect, F. C. Watson, Chester, Pa. Owner, Wm. L. Watson, on premises. Frame, 1 story, 16x18 feet, asphalt, shingle roof, pine floors, hot air heat, electric light.

Administration Building (alts.), Drexel Pk., Pa. Architect ready for bids. Architect, Edgar A. Wightman, Bankers Trust Building, Philadelphia. Owner, Arlington Cemetery, Drexel Park, Pa. General interior alterations, tin roof, hot water heat, electric light, carpentry and mill work, cement work.

Road Work, Pennsylvania. Low bidders. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa.

Lehigh County, R-153, Sec. 2, Upper Saucon Township. One course reinforced concrete, grading and drainage. Continental Contracting Co., Baltimore, Md., \$197,789.93.

Allegheny County, R-246, Sec. 5, Ross Township, West View Borough. One course reinforced concrete. D. W. Challis & Sons, Inc., Sewickley, Pa., \$158,661.59.

Allegheny County, R-337, A-5566, Versailles and North Versailles Townships. One course reinforced concrete. A. G. Rothery, Elizabeth, Pa., \$185,885.41.

Greene County, R-111, Sec. 5, A-4283A, Jackson Township. One course reinforced concrete. Roy E. Furman, Waynesburg, Pa., \$47,104.16.

Lackawanna County, R-322, A-6143, Sec. 2, Scott and Benton Townships. One course reinforced concrete. W. D. Fote, Olean, N. Y., \$109,211.61.

Lycoming County, R-20, Old Lycoming Township. One course reinforced concrete. A. W. Hinaman Construction Co., Williamsport, Pa., \$49,333.07.

Schuylkill County, R-718, Ashland Borough, Butler Township. One course reinforced concrete. W. D. Fote, Olean, N. Y., \$56,451.80.

Luzerne County, R-4, Sec. 6A, Larksville, Edwardsville and Kingston Boroughs. One course reinforced concrete. D. W. Davis & Sons, Inc., Kingston, Pa., \$37,699.40.

Schuylkill County, R-185, Rush and Kline Townships. One course reinforced concrete. Rudolph & Delano, Tamaqua, Pa., \$49,464.35.

Westmoreland County, R-119, Sec. 3B-4B, Ligonier and Unity Townships. One course reinforced concrete. J. I. Dick, Scottdale, Pa., \$233,774.51.

Beaver County, R-287, Sec. 1A and 3, A-5533, Georgetown Borough, Greene Township. One course reinforced concrete. Grading and drainage. Keystone Contracting Co., Pittsburgh, Pa., \$243,699.33.

Northumberland County, R-336, Zerbe Township. One course reinforced concrete. D. W. Davis & Sons, Inc., Kingston, Pa., \$81,593.20.

Fayette County, R-113, Sec. 3, Brownsville, Menallen and Redstone Townships. One course reinforced concrete. Fort Pitt Construction Co., Pittsburgh, Pa., \$435,551.33.

Armstrong County, R-188, A-5779, Kiskiminetas Township. One course reinforced concrete. A. G. Rothery, Elizabeth, Pa., \$43,529.79.

Blair County, R-260, Sec. R-3, A and B, Frankstown Township. One course reinforced concrete, grading and drainage. Samuel Domienick, Altoona, Pa., \$84,396.09.

Cambria County, A-5538, Stonycreek Township. One course reinforced concrete. D. R. Davis, Johnstown, Pa., \$34,730.99.

Centre County, R-219, Sec. 4, Boggs-Howard Townships, Milesburg Borough. One course reinforced concrete. Lord Construction Co., Hastings, Pa., \$259,974.60.

Delaware County, R-144, Newtown Township. One course reinforced concrete. Dalton Brothers, Inc., Paoli, Pa., \$55,917.96.

Erie County, R-272, A-5604, 5605, Elk Creek and Franklin Townships. One course reinforced concrete. L. V. Metz Construction Co., Erie, Pa., \$169,674.42.

Fayette County, R-50, Sec. 1, Wharton, North Union and South Union Townships. One course reinforced concrete. Bituminous surface treated macadam surface course. Donora Construction Co., Donora, Pa., \$561,546.27.

Luzerne County, R-170, Sec. 6, Butler, Dorrance, Wright and Fairview Townships. One course reinforced concrete. Rudolph & Delano, Tamaqua, Pa., \$492,067.82.

Mercer County, R-82, Greenville Borough. Bituminous surface course, Specifications A, D or E. Young & Keesecker, Youngstown, Ohio, \$11,302.80.

Mifflin County, R-192, Brown Township. Grading and drainage. L. M. Hutchinson, Altoona, Pa., \$50,650.58.

Northumberland County, R-1, A-5014, Lower Augusta Township. One course reinforced concrete. L. R. Mathieu, Altoona, Pa., \$69,175.23.

Washington County, R-118-247, Fallowfield Township, Charleroi Borough. One course reinforced concrete, vitrified brick pavement on plain concrete base. Thomas Arrigo, Charleroi, Pa., \$64,755.05.

Westmoreland County, R-117, Sec. 3, Hempfield Township, South Greensburg and Southwest Greensburg Boroughs. One course reinforced concrete. Consolidated Engineering Co., Wheeling, W. Va., \$165,390.37.

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Westmoreland County, R-119, Sec. 2C, Ligonier Township, Ligonier Borough. One course reinforced concrete. Jones Construction Co., Hickory, Pa., \$215,762.74.

Armstrong County, viaduct over Pine Creek and B. R. & P. R. R. Valley Township, Route 66. Reinforced concrete. Pitt Construction Co., Pittsburgh, Pa., \$70,978.72.

Chester County, Route 131, Kennett Township, bridge, reinforced concrete, temporary bridge. King & O'Brien, Wayne, Pa., \$19,713.62.

Pennsylvania Contracts Awarded

Ward Building, Coaldale, Pa. Contract awarded F. K. Worley Construction Co., Wesley Building, Philadelphia. Architect, Eric Fisher Wood, 233 Oliver street, Pittsburgh, Pa. Owners, Coaldale State Hospital, Coaldale, Pa. Brick, steel, 2 stories and basement, 72x49 feet, composition roof, hollow metal doors, elevator doors, caulking, composition floors, metal and tile work, linoleum floors, steel sash, elevators, cement floors, damp-proofing, kalamein doors, diet kitchen equipment.

Abington Junior High School, Highland, South of Susquehanna avenue, Abington, Pa. Contracts awarded. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Abington School Board, G. Oberholtzer, Glenside, Pa. Brick, steel, reinforced concrete, stone, 2 stories and basement, 201x60 feet. General, to A. W. Funk, Altoona, Pa. Electric, Mitchell & Co., 1337 McFerran street, Philadelphia. Heating, American Heating & Ventilating Co., Schaff Building, Philadelphia. Plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia.

Manual Arts Building and School, Prospect Park, Pa. Contracts awarded. Architect, C. W. Brazer, Crozer Building, Chester, Pa. Owners, Prospect Park School Board, J. L. Galloway, Moore, Pa. General, to P. Lange, Audubon, N. J., \$46,846. Plumbing, William P. Fowden, Chester, Pa., \$3,400. Heating and ventilating, to William P. Fowden, Chester, Pa., \$8,500. Electric, Jesse C. Marshall, Moore, Pa., \$1,877.

School (alts.), Plymouth, Pa. Contract awarded H. Mailander, 167 Barney street, Wilkes-Barre, Pa. Heating to T. A. Curley,

696½ Hazle st., Wilkes-Barre, Pa. Electric to J. C. Koval, 7 W. Main st., Miners Mills, Pa. Architects, Mack & Salm, Coal Exchange Bldg., Wilkes-Barre, Pa. Owners, Plymouth School Board, Mr. Matthews, secretary, West Main Street Building, Plymouth, Pa. Maple floors, austral windows, roof ventilators, blackboards, general interior and exterior alterations, Warren Webster heat.

School, Newport, Pa. Contract awarded A. J. Sordoni, Forty Fort, Pa. Heating, plumbing and ventilating to J. L. Turner Co., Nanticoke. Architect, F. A. Foster, Brooks Building, Wilkes-Barre, Pa. Owners, Lehigh & Wilkes-Barre Coal Co. and Glen Alden Coal Co., Wilkes-Barre, Pa. Brick, steel, 2 stories, 60x190 feet, built-up roof, maple floors, hollow tile, roof ventilators, waterproofing and damp-proofing, ornamental iron, iron stairs, bond, fire doors, steel sash, metal lath, electric work.

Store and Warehouse, Nazareth, Pa. Contract awarded Hahn & Gold, Nazareth, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Unangst Furniture & Carpet Co., North New street, Nazareth, Pa. Brick, steel, 2 stories, 190x40 feet, slag roof, maple floors, cast stone.

Meeting House, Meeting House lane, Jenkintown, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architects, DeArmond, Ashmead & Bicklet, 20 South Fifteenth street, Philadelphia. Owners, Abington Friends' Meeting House, Jenkintown, Pa.

School (add.), Wallingford, Pa. Nether Providence, Pa. \$41,900. Contracts awarded Bowden Construction Co., 1607 Summer street, Philadelphia. Heating, W. P. Fowden, Chester, Pa., \$4,500. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Nether Providence Township School Board, C. Lewis, Media, Pa. Brick, stone, 2 stories and basement, 80x37 feet.

Residence (alts. and add.), Blackwood road, Narberth, Pa. Contract awarded G. L. & J. K. Callahan, 473 Oriole street, Philadelphia. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, Frank B. Allen, Lewis Building, Philadelphia. Stone, steel, 2½ stories and basement, 31x42 feet, shingle roof, oak and pine, cement floors, metal lath, tile work, ornamental iron work, excavation, iron work, plastering, flagstone, concrete block, excavation, iron work, plastering, steel sash, linoleum floors, caulking,

wood deck, area gratings, weather stripping.

Garage (add.), Market street, West Chester, Pa. Contract awarded West Chester Realty Co., West Chester, Pa. Architect, William J. Corcoran, West Chester, Pa. Owners, Chester Valley Bus Line, on premises. Brick and hollow tile, 1 story.

Fire House (alts.), Conshohocken, Pa. Contract awarded Oscar Frees, Conshohocken, Pa. Owners, Conshohocken Fire Co., No. 2, E. Bolton, Conshohocken, Pa. Reinforced new doorway, overhead doors.

Railroad Siding, \$10,800. Perkasio, Pa. Contract awarded O'Rourke Brothers, Norristown, Pa. Owners, E. S. Dover Estate and Borough of Perkasio, Pa.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Lehigh County, R-153, Sec. 2, Upper Saucon Township. Continental Contracting Co., Baltimore, Md., \$197,789.93.

Lackawanna County, R-322, A-6143, Sec. 2, Scott and Benton Townships. W. D. Fote, Olean, N. Y., \$109,211.61.

Armstrong County, R-188, A-5779, Kiskiminetas Township. A. G. Rothery, Elizabeth, Pa., \$43,529.79.

Sewer, Eleventh street, between Market and Green streets, Marcus Hook, Pa. Owners, Borough of Marcus Hook, Pa. Contract awarded T. F. Reilly, Chester, Pa.

Road Work, Pennsylvania. Contracts awarded. Owners, State Highway Department, Jas. L. Stuart, Secretary, Harrisburg, Pa. Clearfield Co., R-62, Spur, Penn Twp.; Lumber, City Boro. Bituminous surface treated macadam surface course grading and drainage. Burnside Construction Co., Burnside Pa., \$47,940.83. Schuylkill Co., R-226, A-5466, West Penn Twp. One course reinforced concrete, Graham & Harnish, Rothsville, Pa., \$66,538.03. Chester Co., R-137, bride, East Bradford Twp. over Valley Creek, concrete, John H. Wickersham, Lancaster, Pa., \$9,856.35. Butler Co., R-73, Slippery Rock Twp., Bridge, 2 span, reinforced concrete. Woods & Golden Construction Co., New Castle, Pa., \$47,009.85. Cambria Co., A-5802, Upper Yoder Twp., Southmont Bor., one course reinforced concrete, D. R. Davis, Johnstown, Pa., \$21,735.14. Chester Co., R-137, W. Bradford Twp., bridges (2), plate girder with concrete abutments and piers, Smith-Fenstermacher Co., Allentown, Pa., \$73,298.61. Berks Co., R-146, Exeter Twp.,

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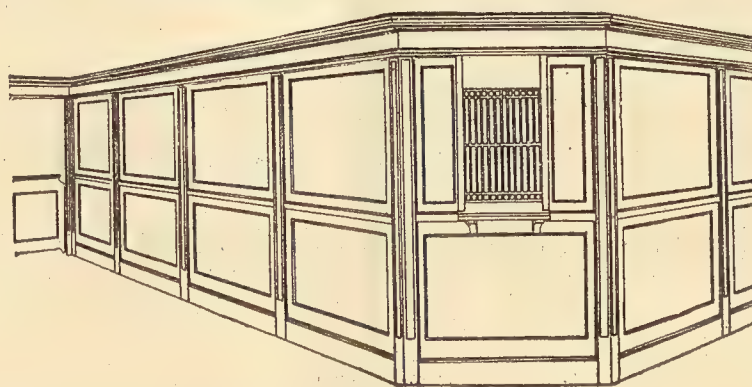
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St. Lawrence Boro., one course reinforced concrete, A. Stryker, Inc., Trenton, N. J., \$275,360.77. Snyder Co., R-28, Beaver, Spring and West Beaver Twps., grading and drainage, Louis Dolente, 5122 Master street, Phila., \$108,938.29. York Co., A-1993, Manchester and East Manchester Twps., bituminous surface treated macadam surface course, Benj. Foster Co., 20th and Venango streets, Phila., \$48,622.48. Indiana-Cambria Cos., R-54, 2, R-301, 3, Pine Twp., Blacklick Twp., one course reinforced concrete, grading and drainage, M. Bennett & Sons, Indiana, Pa., \$458,428.64. Northampton Co., R-165, R-166, A-6219, Wind Gap Boro. One course reinforced concrete, Graham & Harnish, Rothsville, Pa., \$17,214. Bradford Co., R-20, Sec. 11, Columbia Twp. One course reinforced concrete, Harry L. Moors Cons. Co., Newberry, Pa., \$40,200.78. Bucks Co., R-252, Southampton and Middletown Twps., bridge. John H. Wickersham, Appel Bldg., Lancaster, Pa., \$50,589.56. Washington Co., R-247, Sec. 16, Finleyville Boro., Union Twp. One course reinforced concrete, Hardy & Rankin, Canonsburg, Pa., \$40,557.20. Blair Co., R-260, Sec. R-4, Catharine Twp. One course reinforced concrete, Samuel Domenick, Altoona, Pa., \$122,231.81.

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Residence and Garage, Devon, Pa. Contract awarded Gray Bros., Rosemont, Pa. Owner, Mrs. Lewis Audenried, 1800 Delancey street, Philadelphia. Concrete block, stucco, 2½ story and basement, tile roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, bond cinder block, irregular in size.

Garage, Cynwdd, Pa. Contract awarded Jas. Tily, Bala, Pa. Owner, H. O. Peebles, Cynwyd, Pa. Architect, Edgar A. Wightman, Bankers Trust Building, Philadelphia. Cinder block, stucco, one story, 18x20 feet.

Factory and Office Building, \$100,00. Hallowell, Pa. Contract awarded Barclay White Co., 22 North 36th street, Philadelphia. Architect, private plans. Owner, Pitcairn Aircraft, Inc., Bryn Athyn, Pa. Brick, steel, 1 story, 374x150 feet, slag and concrete roof, cement floors, steam heat, electric light, steel sash.

New Jersey Construction News

Municipal Pier, Stone Harbor, N. J. Plans drawn. Engineer, Henry Glaser, 720 Madison avenue, N. Y. Owners, Borough of Stone Harbor, N. J. Stores, dance floor, 42-foot stage and dressing rooms, rest rooms, band stand, 12-foot promenade around pier.

Church (alts. and add.), Trenton, N. J. Architect about ready for bids. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, First Presbyterian Church, Hamilton Square, N. J. Concrete block, stucco, 1 story, 37x58 feet, slate roof, oak and teltex floors, hollow tile, general interior alterations, metal lath, heating extension, electric light.

Hotel, Beach Front, Atlantic City, N. J. Architect will be ready for bids in ten days. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, name withheld. Brick, limestone, fireproof, 18 stories, 250x180 feet, concrete roof, elevators, safety treads, roof ventilators, waterproofing and dampproofing, wrought iron pipe, brass pipe, ornamental iron, iron stairs, steel sash, tile, marble, steam heat, electric light.

Store and Office Building, \$40,000. Sixth and Cooper streets, Camden, N. J. Architect taking bids due June 10th, at 5 P. M. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Northwest Cooper Corporation, care of architect. Brick, terra cotta, 2 stories, 80x36 feet, 74x36 feet, slag roof, oil burner, linoleum floors, vacuum heat, electric light, tile work, copper store fronts, painting, glazing.

Hall No. 2, Reformatory for Women, Clinton, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J.

Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, brick, steel, 2½ stories and basement, 128x29 feet, membrane and integral waterproofing, concrete block, structural steel and iron, kalamein doors and sash, steel sash, metal lath, plaster, tile work, alberne stone, metal weather strip, slate roof. General, David Teitz, 414 Market street, Trenton, N. J., \$63,700. Plumbing, Arthur Maddox, Montclair, N. J., \$5,255. Heating, Nelson Piping & Equipment Co., 706 Delancey street, Philadelphia, \$4,270. Electric, Hoekenbury Electric Co., Somerville, N. J., \$1,942.

Road Work, New Jersey. Owners taking bids due June 17th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 25, Sec. 8A, Grand street, Rahway to Wood avenue, Linden, Union County. Unclassified excavation, reinforced concrete pavement, bituminous macadam, FA-BC-1.

Route S-41, Sec. 1, from a point west of Hilton road to King's Highway, Camden and Burlington Counties. Unclassified excavation, wet excavation, borrow, reinforced concrete pavement, gravel shoulders, penetration macadam pavement. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners taking bids due June 24th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route 10, Sec. A and B, Contract 24, from near Charlotte avenue, Jersey City, to a point at or near Fish House road, Kearny, Hudson County. Embankment, superstructure for viaduct approaches and bridge across Hackensack River. Concrete, steel, granite block pavement. Certified check, 10 per cent. Deposit, \$10.

Bridges, "Route 1, Sec. 5, Contract 27, in West Side Park, Jersey City, Hudson County, N. J. Owners taking bids due June 24th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Construction of 1 vehicular and 2 foot bridges, including abutments, wing walls and other incidental work, structural steel, concrete, timber piling. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Low bidder. Route S-rA, Tuckerton-Little Beach, Ocean County, N. J. Monihan & Hall, Inc., Ocean City, N. J., \$585,691.15.

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New Jersey Contracts Awarded

Criminal Insane Building (add.), New Jersey State Hospital, Trenton, N. J. Contract awarded C. J. Smith Construction Co., Trenton, N. J., \$174,450. Heating, Walter Bittner, 2015 Hamilton avenue, Trenton, \$18,360. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, concrete, steel, limestone, 3 stories and basement, 168x48 feet, wing 145x38 feet, concrete floors, integral and membrane waterproofing, iron stairs, kalamein doors and frames, steel shelving, steel sash.

Disciplinary Building, Colony for Feeble Minded Males, New Lisbon, N. J. Contract awarded David Teitz, 414 Market street, Trenton, N. J. Plumbing, George D. Worrell, Mt. Holly, N. J. Heating, George D. Worrell, Mt. Holly, N. J. Electric, Strang Electric Co., 2903 Westfield avenue, Camden, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Brick, stucco, steel, 1 story and basement, 94x42 feet, 19x34 feet, iron.

Temple, Trenton, N. J. Contract awarded General Contracting & Construction Co., 133 East Front street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Har Sinai Temple, care of architect. Fireproof, stone, 1 and 3 stories, 100x150 feet, tile roof, tile and cement floors, safety treads, roof ventilators, metal lath, fire doors.

Hotel, New Jersey and Boardwalk, \$2,000,000 (Garden Pier), Atlantic City, N. J. Contract awarded Day & Zimmerman, 112 North Broad street, Philadelphia. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owners, Garden Pier Hotel, on premises.

School Building No. 4 (add.), Woodbury, N. J. Contract awarded. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education, North Broad street, Woodbury, N. J. General, J. T. Allen, Woodbury, N. J., \$31,591.50. Electric, Roland D. McMahon, Woodbury, N. J., \$1,296. Heating, Samuel N. Peters, Woodbury, N. J., \$7,700. Plumbing, Charles E. Pettibone, Woodbury, N. J., \$2,395.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Bridge over Swan Creek, Route 29, Sec. 6, Hunterdon County. E. A. Todd, Drexel Hill, Pa., \$12,944.75.

Bridge over Wallkill River, Route 31, Sec. 7, Sussex County. J. T. McGrevey, Manassquan, N. J., \$31,897.85.

Route 34, Sec. 1, Matawan to Holmdel, Monmouth County. Jannarone Contracting Co., Belleville, N. J., \$336,149.26.

Miscellaneous Construction News

Club House (alts. and add.), Berwind, McDowell Co., West Virginia. Plans about completed. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owner, Berwind Club, Berwind, McDowell Co., West Virginia.

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LUMBER AND WOOD PRODUCTS NEED BETTER CARE ON CONSTRUCTION JOB

Forest Products Laboratory Expert Explains Some Causes of Plaster Cracks and Rattling Doors and Windows

"Lumber on the building job must be given as good care and protection as other material if the owner is to avoid future repair bills, discomfort, and annoyance," Mr. Rolf Thelen stated at the recent forest research conference at the Forest Products Laboratory. "Look at most any construction job and compare the difference in the way lumber and other materials are handled. If you happen on the job during a rain, you will find the contractor has placed tarpaulins over the bricks in the pile. You will find that the mortared joints where the men have stopped laying bricks for the day are properly covered up. You will find that much of the cut stone has been protected with tar paper, and the cement is stored in a tight shed. All very good; but how about the lumber? You will find that the frames of the windows are standing out in the open without any protection except one thin coat of primer on some of the surfaces. The mill that made them evidently thought ahead far enough to put a suggestion of protection on some parts of them, but once delivered on the job the care of these frames has been turned over to Providence. We admire this confidence in wood, but we know that the contractor would save money for himself and both trouble and money for the owners of the building if he would take even as

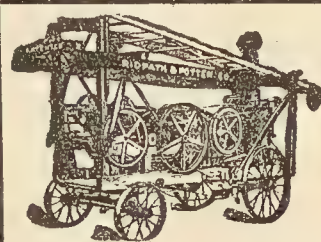
good care of the lumber as he takes of the brick.

"The neglected frames will swell as the rain soaks into the wood. At best the swelling will cost the contractor money because his men will have more work to do in getting the frames into place, and later in making the windows fit the frames. The swelling will cost the owners money because the wood will shrink

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as it dries out again, and then the windows will leak cold air in the winter and may even leak rain or snow. It will cost more to heat the structure.

"Further, there are other possibilities that may be worse. If the frames are partly in shadow when the sun comes out again, they will dry unevenly and may warp. If they warp, all the troubles will be intensified. And there is no need of it. In the main, lumber manufacturers are today seasoning lumber satisfactorily. When the wholesalers and retailers handle it properly, it reaches the job in good condition. Then the contractor, at least the average contractor, undoes all the good work by leaving the lumber out in the rain. The lumber manufacturer spends money to dry his product as it should be dried and the owner of the building pays him for doing it. But the contractor, with few exceptions, wastes all this effort and all this expenditure. And the owner pays for his waste."

Doors act in the same way as the windows. So do walls and partitions, and in consequence the plaster cracks. "The trouble is preventable, and it will be prevented," Mr. Thelen ventured, "as soon as the owners wake up and take a hand in the matter. That all contractors can protect lumber properly is proved by the few that are now doing it. And although wholesalers and retailers are not blameless, the average contractor can ill afford to criticize them, because as a rule it is delivered to him in much better condition than when the contractor puts it in place."

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

PROTECTION AND SAFETY WORK

Committee on Accident Prevention of the Building Trades Employers' Association Completes Helpful Safety Specifications

A specification entitled "Protection and Safety Work" has recently been issued in new form by the Committee on Accident Prevention of the Building Trades Employers' Association of New York, as another step in its campaign to reduce casualties on construction work in New York. This specification which is now in the same form as the contract documents of the American Institute of Architects to make it convenient for use by both architects and builders, contains provisions which the committee considers important for safeguarding the work to prevent injury to the workmen. The articles of the specification include much valuable information and are as follows:

The owner and/or contractor shall install and maintain all of the safeguards enumerated in Articles 1 to 15 inclusive, of this specification and shall comply with the requirements of all laws and ordinances in force in the locality where the work is situated relative to the safeguarding of the work to prevent injury to persons. All safeguards shall be constructed in accordance with the requirements of such laws and ordinances. Sizes and other details specified shall be considered as the minimum requirements and shall be modified and extended to comply with any existing law or ordinance. When a situation arises where two or more of these safety rules may apply and there is doubt as to which one should be used, the rule which is the more practicable and

which affords adequate protection may be followed. The following rules describe safety measures to be employed for the prevention of accidents:

ART. 1. *First Aid*.—Provide and maintain an ample supply of iodine or mercuriochrome and aseptic gauze bandage in a suitable cabinet.

ART. 2. *Ladders and Temporary Stairs*.—Install and maintain ladders or temporary stairs of ample strength to give access from one floor to another after the structural flooring is in place and until the permanent stairs are available. Such ladders or temporary stairs shall be of such size and so located as to give proper facilities to all workmen engaged on the work. The side rails of each ladder shall extend at least thirty-four (34) inches above the platform or floor it serves and when required, ladders should be made at least four (4) feet wide with three stringers. Temporary stairways, if installed, shall be provided with substantial handrails.

All intermediate landings shall be substantially constructed without openings between the planks and all intermediate landing and ladder openings in the floor shall be enclosed by a railing and a toe board as described below under heading "Floor Openings" so that a person cannot step into the ladder shaft except at the openings provided for the ladders.

Also provide similar ladders before the structural floors are started and above the top floor on which the structural flooring has been placed. Each ladder shall be secured against slipping and shall extend at least thirty-four (34) inches above the floor or platform it serves. At top and bottom of each ladder provide solid wood platforms, at least two (2) feet longer than the width of the ladder and with an approximate width of three (3) feet.

ART. 3. *Permanent Stairways*.—Stairwells for permanent stairways shall be guarded on all open sides with railings and toeboards as described below under "Floor Openings" and all permanent stairways shall be provided on open sides with substantial temporary planed wood handrails, thirty-six (36) inches in height, measured from the center of the tread.

Stairways on which treads and landings have to be filled in later with cement or other filling material shall have temporary wooden treads and landings, or other equally suitable material, to the height of the nosing, full width of the tread and landing, firmly fitted in place and replaced when worn below the level of the metal nosing. Where skeleton iron stairs are installed, they shall have wooden treads and landings not less than two (2) inches thick. All treads and landings shall be free from protruding nails and splinters.

ART. 4. *Permanent or Temporary Elevator Car Used for Carrying Workmen*.



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—Where a permanent or temporary elevator car has been installed and is used during construction for carrying passengers, the hoistway shall be completely enclosed in partitions not less than eight (8) feet high, and all openings therein fitted with doors locked on the hoistway side. The car shall be fully and substantially enclosed on all sides, including the top, except as required for entrances.

ART 5. *Floor Openings.*—All openings in floors (except such as are necessary to be opened for immediate use) shall be protected by guardrails approximately forty-two (42) inches high with uprights not less than two by four (2 x 4) inches, spaced not more than eight (8) feet apart. The top rail shall be not less than two by four (2 x 4) inches or equivalent section and the midrail not less than seven-eighths ($\frac{7}{8}$) inch by four (4) inches. Each guardrail shall be provided with a toeboard, not less than seven-eighths ($\frac{7}{8}$) inch by six (6) inches, placed on edge. As an alternate, small openings may be planked over in a substantial manner.

ART. 6. *Guarding Material Hoist Shafts.*—Two sides of all material hoist shaftways shall be enclosed at each floor to a height or not less than eight (8) feet, with wire netting of not less than No. 10 U. S. standard gauge and not more than one and one-half ($1\frac{1}{2}$) inch mesh, or expanded metal of equivalent strength, secured to uprights so spaced as to afford a strong and substantial guard. Wood slats laid preferably horizontal may be used instead of wire netting with openings between slats not to exceed one and one-half ($1\frac{1}{2}$) inches. The guard shall extend, if practicable, two (2) feet beyond sides of the shaftway. At two sides of the hoistway used for handling material, there shall be bars three (3) feet high bolted or otherwise secured at one end to the guard, and placed, where possible, not less than two (2) feet from the edge of the shaft opening. Such bars shall be not less than two (2) inches by three (3) inches, made of spruce or other approved material of equal strength. A toeboard at least seven-eighths ($\frac{7}{8}$) inch by six (6) inches shall be installed on

open sides when not being used for handling material.

ART. 7. *Concrete Bucket Shafts.*—When a concrete bucket tower is located within the building, it shall be enclosed on all the sides which are less than three feet from the edge of the shaftway or opening in which it is installed, or on the sides where scaffolds may be erected, by attaching boards, wire netting or expanded metal to the frame work of the hoist tower, or to other suitable supports, leaving suitable openings for the bucket to dump. If wire netting is used, it shall not be lighter than No. 10 U. S. standard gauge with not more than one and one-half ($1\frac{1}{2}$) inch mesh. If expanded metal is used, it shall be of equivalent strength and mesh. If wood slats are used, they may be laid vertically or horizontally, but the spaces between slats shall not exceed one and one-half ($1\frac{1}{2}$) inches.

When shaft is outside of the building, guardrails and toeboards shall be placed on sides of runways to hoist shaft, and side of shaft which faces the building shall be guarded as specified above, except space where bucket dumps.

ART 8. *Swinging Scaffolds.*—Every scaffold swung from an overhead support, which is ten (10) feet or more above the ground or floor, shall be of ample strength, not less than twenty-seven (27) inches in width and provided with a substantial railing and toeboard along the outer edge. All ropes, cables and blocks supporting scaffold shall be capable of sustaining at least four times the maximum weight of the material and men to be placed on the scaffold, and means shall be provided to prevent the scaffold from swaying.

ART 9. *Suspended Scaffolds.*—Platforms suspended by steel cables and operated by hoisting machines for the use of bricklayers and for similar use shall be supported by outriggers or other form of support equal in strength to seven-inch I beams having a weight of fifteen and three-tenth (15.3) pounds per foot. Outriggers shall be not more than nine (9) feet apart. The platform shall be made of sound plank not less than two (2)

inches thick properly secured and laid close.

The outside of the platform shall be provided with a substantial railing of iron or wood not less than forty-two (42) inches high, and provided with a toeboard not less than nine (9) inches high. The space between the toeboard and the railing shall be filled in with wire netting of not more than three-quarters ($\frac{3}{4}$) inch mesh. An overhead protective covering shall be maintained at such time as the platform is in use, at a height of not more than nine (9) feet above the working platform.

ART. 10. *Built Up Scaffolds.*—All scaffolds shall be of ample strength to support the maximum number of men to be placed on same plus the weight of the material. Scaffolds more than fourteen (14) feet in height shall be provided with substantial railings thirty-four (34) inches high and toeboards nine (9) inches high on all edges which are not close to the walls. When a scaffold crosses a window or other opening which extends five (5) feet or more above the platform of the scaffold, a similar guard and toeboard shall be placed across the opening.

ART. 11. *Outrigger Scaffolds.*—Outriggers where projecting not more than six (6) feet from the face of the wall or building shall be sound yellow pine or spruce not less than three by ten (3 x 10) inches or other approved material of equal strength, and shall be well braced and secured to prevent tipping or turning. The platform shall be of sound yellow pine, spruce or other approved material of equal strength, not less than two (2) inches thick, laid close. The outside of the platform shall be provided with a substantial railing of iron or wood, not less than forty-two (42) inches high, and provided with a toeboard not less than nine (9) inches high. The space between the railing and the toeboard shall be filled in with wire netting of not more than three-quarters ($\frac{3}{4}$) inch mesh.

ART 12. *Special Scaffolds.*—Construct and maintain suitable scaffolding of sufficient strength as may be required for exterior work on towers, spires, etc., and

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interior work in churches, theatres, auditoriums and the like.

ART. 13. *Artificial Lighting.*—Install and maintain lighting for the under side of the protection over sidewalk; also for temporary illumination of the building. Suitable feeder lines should be installed extending from the bottom to the top of the building, and of ample capacity to properly provide for all spaces requiring light, and at the same time, service for all motors contemplated to be used. Install and maintain one light at each floor landing in fire tower and stairways and at such other places as may be necessary to properly light the stairway; also, in exits to streets, and on all elevator cars used for carrying passengers.

ART. 14. *Planking Derrick Floor.*—Where structural steel is being erected, the derrick floor shall be entirely planked over.

ART. 15. *Sidewalk and Overhead Protection.*—Maintain safe sidewalks for the use of pedestrians including overhead protection for same with its outside columns secured against lateral displacement as required by laws and ordinances in force in the locality. Where an overhead sidewalk bridge is used for the storage of material, it shall not be overloaded.

—*The Associated Contractor.*

"HE PROFITS MOST, WHO SERVES THE PUBLIC AND HIS VOCATION BEST"

A service rendered is another step forward along the rough road of success, for the road to success is generally rough and hard to climb, few are those who have not had to fight almost every step of the way. We are engaged in serving that great market, the public, those of us who serve the public well, at times sacrificing self and personal gain, soon establish a reputation for fair and impartial dealing, create confidence in those we meet, and they in turn advise their friends to patronize us. No business that is fundamentally and financially sound ever followed any other rule or policy than "He profits most, who serves the public and his vocation best."

This great rule applies strongly to those of us engaged in building construction, how well the words of the great bard fit our case, "Make a house where Gods might dwell, beautiful, entire and clean." Builders wrought with greatest care each minute and unseen part, for the Gods see everywhere. And it just those unseen parts, that hidden foundation, the strength of the girders, the right proportion of the concrete, the right grades of lumber and material, that make the completed job one to be proud of, or a menace to public safety. There should be that strong love of our craft, that pride in the development of the things we build, that we

would scorn to use methods that tend to weaken instead of strengthen the construction for which we are responsible.

It is not a fact that we can not make a fair and reasonable profit unless we resort to those methods used by the cut and run so called contractor, we are not idealists, we are practical business men engaged in the greatest of all crafts, building construction. We have spent the best years of our life acquiring the knowledge necessary to fulfill the plans of the designer, on our shoulders rests the burden of the accomplishment, surely we should feel the pride of this accomplishment.

Our knowledge of the craft should not be a means to cut corners, and resort to clever substitution. We are able to stand on the results of our accomplishments, our greatness is measured only by our ability to create. We must render the best we have, our reputation is valued by the results of our efforts, take this away from us and we have nothing left. There is no hope of repetition once we are found out as one who skimps the job at every possible opportunity, substitutes inferior material wherever possible, ignores his responsibility and duty to the one who pays him to perform the job honestly and well.

There are those who think they can "get away with it" and for a time they do, but there is always that time when the day of reckoning comes, when at last they face exposure, their sins have found them out, and at last they are confronted with facts and evidence of their deceit, facing a crisis that could have been avoided, had they pursued a sound and fixed rule. He profits most, who serves the public and his vocation best.—*East Bay Builder.*

Approximately 1,800 miles of improved roads will be constructed by the Department of Highways during the coming biennium, starting June 1, the most extensive construction and replacement program ever launched in the history of Pennsylvania, James Lyall Stuart, Secretary of Highways, announced May 28. Practically every section of the State will be benefitted by this immense program, made possible through bills passed by the 1929 Legislature and approved by Governor John S. Fisher.

The principal item in the program will be new construction of 1,100 miles of roads, which will include replacement of 300 miles of old and worn-out, macadam pavements. The entire 1,100 miles of new road, financed one hundred per cent by the State, will be improved on the highway system only. The major portion is financed by the \$23,500,000 appropriation in the Wheeler-Flynn Act approved by Governor John S. Fisher on May 1, 1929. This appropriation is allocated to the several counties on the ratio of the unim-

proved State highway mileage in the county to the unimproved mileage on the whole State highway system. No county receives less than \$200,000 nor more than \$600,000.

In addition to this 1100 miles of new roads, the Department of Highways has a carry-over construction of 500 miles of newly surfaced roads into the 1929-1930 biennium. This unfinished construction includes 331.70 miles of uncompleted contracts from 1928, and 168.30 miles advertised since January 1, 1929, and up to and including May 22, 23 and 24 lettings. Practically all of this class of construction will be under way within the next thirty days.

Under the State-aid System, counties will be benefitted by the 1929-31 aid appropriation of \$2,000,000, which when increased by counties proportion will build approximately 60 miles of improved road. This money is allocated to the various counties on the basis of township and county road mileage within the counties. The money is only available to the counties provided the counties agree to match the State appropriation. In counties of the first to sixth class the improvement is on a fifty-fifty basis; in counties of the seventh and eighth classes the State assumes 75 per cent of the cost, and the local authorities 25 per cent. The State-aid appropriation may be used on or off the State highway system, according to the preference of the county commissioners.

Another item is the expenditure of \$3,000,000 to \$3,500,000 on 80 miles of new construction, to be financed one hundred per cent by the counties. A number of counties will contribute toward State highway improvements to extend the projects beyond the limits which can be financed by the Wheeler-Flynn appropriation to reach a community or village, or in order to improve entirely the unimproved section of highway. Such extension may be financed solely by the county, or in conjunction with the townships.

Funds, amounting to \$2,000,000, have been set aside for the construction and replacement of 60 miles of city streets. Recent legislation, approved by Governor Fisher, provided that the Department of Highways take over city streets connecting State highway routes, and it is estimated that funds will permit the construction and replacement of sixty miles of such streets. This fund may also be used for maintenance of the streets at the discretion of the Department of Highways.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship, it is going to miss by just that much the pulling power it ought to have.

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John Nacey Co. . . . 7254 Paschall Ave., Phila.

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June 12, 1929

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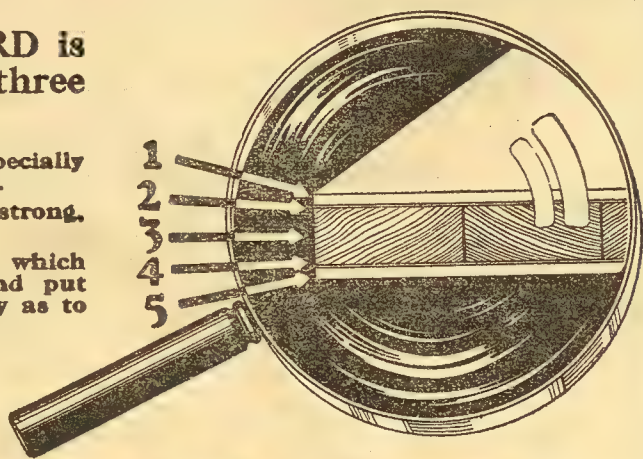
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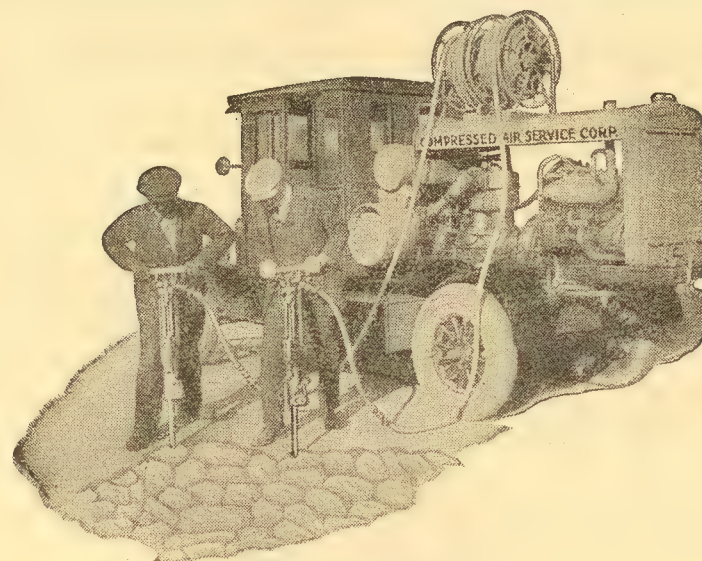
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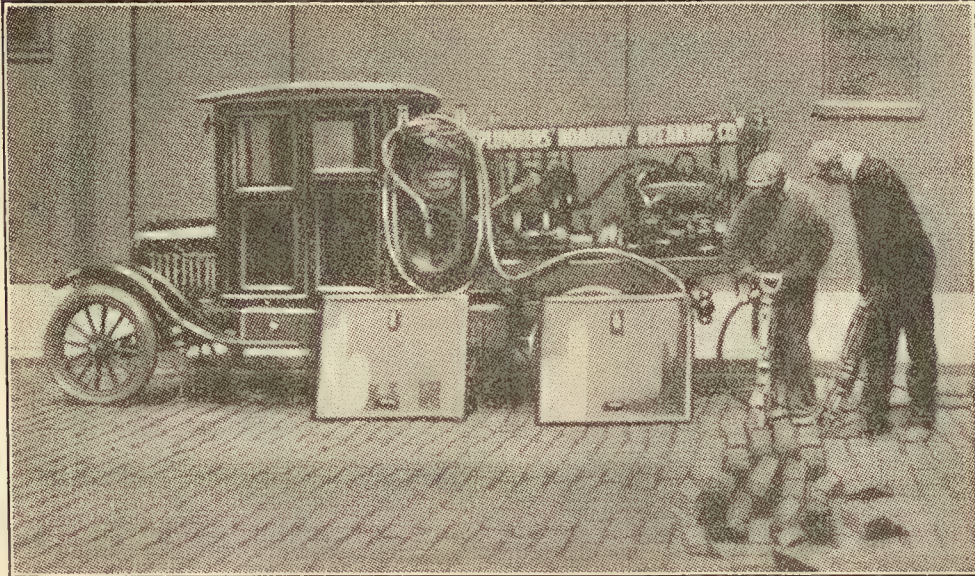
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Devoted to the Advancement of American Architecture, Structural
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VOLUME XLIV
Number 24

PHILADELPHIA
June 12, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Restaurant and Recreation Building, 1919 North Broad street, Philadelphia. Architect selected. Architect, Wm. H. Lee, 1505 Race street, Philadelphia. Owners, Temple University, Dr. C. E. Buery, president, on premises. Brick, concrete, cut stone, flagstone, concrete roof, cement floors, electric light, will contain rest room, reading room, recreation room, auditorium, fully equipped stage, study room, etc.

Group of Buildings, Sixth street, Tabor road, Briston road, Reading Railroad, Olney, Philadelphia. Preliminary plans in progress. Architects, Simon & Simon, Fidelity-Philadelphia Building, Philadelphia. Owners, Proctor & Schwartz, Cleveland, Ohio.

Store and Restaurant, 114-16 South Eighteenth street, Philadelphia. Plans in progress. Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia. Owners, Horn & Hardart, 204 South Warnock street, Philadelphia. Brick, 2 stories, 35x87 feet.

Arcade Building, 909 Chestnut street, Philadelphia. Plans ready for bids in a week. Architect, private plans. Owner, name withheld. Brick work, steam heat, electric light, metal lath, tile work, concrete, cut stone, plumbing, painting, glazing, plastering, ornamental iron work.

Apartment House (52 apartments), Randolph, North of Tioga street, Philadelphia. Plans in progress. Ready for sub-bids in two weeks. Architect, private plans. Owner, name withheld. Brick, cut stone, steel, 4 stories and basement, 96x112 feet, slag roof, oak and pine floors, elevators, steam heat, electric light, metal lath, tile work, bond, or-

namental iron work.

University School of Medicine, Northwest Corner Broad and Ontario streets, Philadelphia. Ready for bids in one month. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Temple University, Dr. C. E. Buery, Broad and Berks streets, Philadelphia. Stone, 5 stories, 100x196 feet.

Church, Sixteenth and Fitzwater streets, Philadelphia. Final plans in progress. Architect will be ready for bids in two weeks. Architect, Charles Talley, Pythias Building, Sixteenth and Addison streets, Philadelphia. Owners, Second Seventh Day Adventist Church, on premises. Brick, cast stone, 1 story and basement, 57x80 feet, slate roof, pine floors, vapor heat, electric light.

Apartment House, Oak Lane Section, Philadelphia. Architect taking sub-bids. Architect, M. Harrison Bohrer, 1032 North Sixty-seventh street, Philadelphia. Owner, name withheld. Brick, steel, cast stone, 3 stories and basement, 165x110 feet, irregular, slag roof, hardwood floors, vapor heat, electric light, oil burner, tile work, tin-clad and kalamein doors, door beds, lumber, mill work, incinerator, refrigerator.

Building (alts.) to Nurses' Home, Northeast Corner Eighth and Pine streets, Philadelphia. Work contemplated. Owners will build. Architect, private plans. Owners, Pennsylvania Hospital, care of Arthur W. Binns, Construction Department, on premises. General interior and exterior alterations.

Apartment House, 3508 Baring street, Philadelphia. Architect is taking sub-bids. Architect, J. Frank Clark, 705 East Church lane.

Owner, name withheld. Brick, steel, cast stone, 4 stories, 56 apartments, slag roof, hardwood and linoleum floors, elevator, rock glass, door beds, refrigerator, laundry and kitchen equipment, hot water heat, electric light, tile work, hollow metal skylights, kalamein doors, miscellaneous iron work.

Apartment House, Penn and Dyre streets, Philadelphia, \$200,000. Owners will build. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owners, Penn-Dyre Apartments Corporation, Olney Branch of Corn Exchange Bank, Philadelphia. Brick, stucco, half-timber, 4 stories and basement, 162x87 feet, 52 suites, vapor heat, electric light, oil burners, tile and marble work, electric elevators, refrigeration and incinerators. Social and playrooms in the basement.

Residences (7), 5519-31 Aramingo street, Philadelphia. Owner taking sub-bids. Owner will build. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, stone, 2 stories, 16x50 feet, slag and tile roof, hardwood floors, hot water heat, electric light, tile work, metal lath, cement work, basement garages.

Residences (8), Torresdale street, Sangor to Shallcross street, Philadelphia. Owner will build and is taking sub-bids. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, stone, 2 stories, 16x50 feet, slag and tile roof, hardwood floors, hot water heat, electric light, tile work, metal lath, cement work, basement garages.

Residences (18), Simon street, near Torresdale avenue, Philadelphia. Owner will build

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and is taking sub-bids. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, stone, 2 stories, 16x38 feet, slag and tile roof, hardwood floors, metal lath, hot water heat, electric light, basement garages, metal lath, cement work.

Office (alts. and add.), 1704 Pine street, Philadelphia. Architects taking bids due June 14th. Architects, Tunis & Baker, 1600 Arch street, Philadelphia. Owner, Dr. T. G. Schnable, on premises. Carpentry and mill work, plastering, painting, glazing, electric work, general interior alterations.

Fire Station (alts.), Engine Company, No. 53, Fourth and Snyder avenue, Philadelphia. Owners taking bids due June 19th, 11 A. M. (Standard Time). City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia. General construction, heating, plumbing, electric work. Deposit, \$10, refunded. Certified check, 5 per cent.

Service Station, Broad and Bott streets, Philadelphia. Owners taking bids due June 15th. Architects, Office of Construction Department, Crew Levick Co., 219 North Broad street. Owners, Crew Levick Co., Mr. Perkins, 219 North Broad street, Philadelphia. Brick, hollow tile, stucco, 1 story, 13x16 feet, slate roof, cement floors, plumbing, hot water heat, electric light, metal lath, bond.

Fire Station (add.), Fiftieth and Willows avenue, Philadelphia. Owners taking bids due June 19th, 11 A. M. (Standard Time). City architect, William S. Covell, City Hall Annex, Philadelphia. Owners, Bureau of Fire, Department of Safety, 215 City Hall, Philadelphia. Brick, steel, 2 stories and basement, 41x30 feet, slag roof, cement floors, metal lath, tile and marble work, rolled steel skylights, bond, ornamental iron work (plumbing, heating, electric separate).

Building, 41 West Cheltenham avenue, Philadelphia. Architects taking bids due June 13th. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, Samuel Emlen, Jr., 38 Maplewood avenue, Philadelphia. Brick, steel, 2 stories and basement, 50x43 feet.

Meat Packing Plants (add.), Northeast Corner Willow and Darien streets, Philadelphia. Engineers, Henschein & McLanen, 1637 Prairie avenue, Chicago, Ill. Owners, John Morrell & Co., 816 Noble street, Philadelphia. Brick, steel, concrete, 3 stories and basement, 50x38 feet, slag roof, cement floors. Engineers taking bids.

Twin Residence and Garages (16), Wellsley road and Cherokee street, Philadelphia. Owners taking bids. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owners, Wellsley Homes Co., Real Estate

Trust Building, Philadelphia. Stone, 2½ stories, 18x50 feet, 16x18 feet, slate roof, hardwood and cement floors, hot water heat, electric light, tile work.

Residences (19), \$66,500. Disston, Hartel, Cottman and Burholme streets, Philadelphia. Permit issued. Architect, private plans. Owner, George Betz, 6915 Rising Sun avenue, Philadelphia. Brick, 2 stories, 15x24 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Open Shed, \$5,000. North side Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Owners, Gulf Refining Co., Girard Point, Philadelphia.

Gas Station, \$3,500. Northwest Corner Thirty-fourth and Hamilton streets, Philadelphia. Permit issued. Architect, private plans. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Brick, 1 story, 15x18 feet.

Residences (27), \$94,500. West side Shills street, South of Gray's avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Timothy Gallagher, 6539 Elmwood avenue, Philadelphia. Brick, 2 stories, 14x29 feet, 11x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (26), \$91,000. 800-24 and 801-25 Wellens avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Frank & Peters, 1643 Chestnut street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (8), \$36,000. 3349-63 Tilden street, Philadelphia. Permit issued. Architect, private plans. Owner, M. J. McCrudden, Thirty-fourth and Midvale avenue, Philadelphia. Brick, 2 stories, 16x28 feet, 11x7 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Supplies, Philadelphia. Owners, Department of Supplies, T. F. Watson, 302 City Hall, Philadelphia. Owners taking bids due June 14th, 11 A. M. (Standard Time). Shut off hose couplings connections, cast iron nozzle castings, ready-mixed concrete, crushed stone, filler dust, asphalt sand, cement.

Schools (2). School, Forty-fourth and Aspen streets, Philadelphia. School, Wright, Umbria street, Philadelphia. Low bidders. Architect, Irvin T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Brick, concrete, steel, 3 stories and basement. Forty-fourth and Aspen Streets—R. S. Herzog, 10 South Eighteenth street, Philadelphia, \$339,339; McCloskey Co., 1620 Thompson street, Philadelphia, \$351,364; heating, Mellon & Co., 4415 Ludlow street, Philadelphia, \$48,887; plumbing, Bulman Bothers, Fifth and Cumberland streets, Philadelphia.

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delphia, \$15,666; electric, Industrial Elec. Co., 124 North Sixty-third street, Philadelphia, \$7,383; ventilating, George H. Priggen, 610 North Fourth street, Philadelphia, \$1,869. Wright and Umbria Street—R. S. Herzog, 10 South Eighteenth street, Philadelphia, \$385,283; Weiss Construction Co., 1428 Master street, Philadelphia, \$391,254; ventilating, George H. Priggen, 610 North Fourth street, Philadelphia, \$1,332; electric, Industrial Elec. Co., 124 North Sixty-third street, Philadelphia, \$15,786; plumbing, Fred Wackenmut, 2416 Frankford avenue, Philadelphia, \$17,000; heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, \$44,244. Specification 185, O. B. Cannon, 6542 Cobb's Creek Parkway, Philadelphia, \$15,141. Specification 186, James McAlpine & Son, 1713 North Twenty-fourth street, \$14,700. Specification 187, John J. Murphy, 1835 Ludlow street, Philadelphia, \$14,490. Specification 188, John F. Welsh, 7130 Montague street, \$13,000. Specification 189, Henry S. Rau, 2018 Sansom street, Philadelphia, \$10,994. Specification 190, James McAlpine & Son, 1713 North Twenty-fourth street, \$15,475. Specification 191, Hooper & Null, 1629 Race street, Philadelphia, \$17,470. Specification 192, O. B. Cannon, 6542 Cobb's Creek Parkway, \$16,700. Specification 193, Hooper & Null, 1629 Race street, Philadelphia, \$22,180.

Miscellaneous Work. Low bidders. Owners, Department of Public Works, Bureau of Engineers and Survey, City Hall. Burham, Arbutus, Wayne, etc., John Hastie, 5720 Virginia road, Philadelphia, \$16,891. Claridge, Lycoming to Hunting Park avenue, A. Cunado, 5920 Magnolia avenue, Philadelphia, \$2,889.25. McKean Parkway, Twenty-fifth to Twenty-eighth, A. Mattia, 748 South Tenth street, Philadelphia, \$10,779.10. Passmore, Erdrick to Frankford, A. Mattia, 748 South Tenth street, Philadelphia, \$7,076. Sixth, Lindley to Duncannon, A. Curado, 5920 Magnolia avenue, \$6,900.50. Third, Berks to Norris, McCool Construction Co., 5033 Duffield street, Philadelphia, \$4,078.50. Twenty-eighth, Snyder to Jackson, Trio Construction Co., 212 North Sixty-fifth street, Philadelphia, \$3,034. Intercepting Sewer, Disston, Wissinoming, etc., Vincent Jaffolla, 1138 Arrott street, Philadelphia, \$15,136.

Pennsylvania R. R., C. E. Walsh, 15 North 32nd street, Philadelphia, taking bids June 21st at noon, No. 27 structural steel; No. 28 piston heads.

Bank Building, Northwest corner Orthodox and Torresdale avenue, Philadelphia. Plans in progress, will be ready for bids in three weeks. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Own-

er, Oxford Bank and Trust Co., B. E. Effing, vice-president, Frankford and Oxford aves., Philadelphia. Limestone, face brick, 2 stories, 40x50 feet, vapor vacuum heat, oil burner, electric light, tile, marble, terrazzo work, hardwood and maple floors, composition roof, miscellaneous work, bronze work.

Bank Building, \$175,000, southwest corner Torresdale and Longshore avenues, Philadelphia. Plans in progress, will be ready for bids in two months. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, Northeast Tacony Bank & Trust Co., C. N. Titus, president, Frankford and Oxford avenues, Philadelphia. Limestone, face brick, 2 stories, 65x90 feet, concrete roof, hardwood and maple floors, vapor vacuum heat, electric light, oil burner, tile, marble and terrazzo work, miscellaneous iron work, bronze work. (Note architect.)

Bank Building, northwest corner Howell street and Torresdale avenue, Philadelphia. Plans in progress will be ready for bids in three weeks. Architect, C. H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, Oxford Bank and Trust Co., B. E. Effing, vice-president, Frankford and Oxford street, Philadelphia. Limestone, face brick, 2 stories, 40x50 feet, composition roof, vapor vacuum oil burner, tile, marble and terrazzo work, hardwood and maple floors, composition roof, miscellaneous work, bronze work.

Miscellaneous Work, Philadelphia. Owner taking bids due June 19th, 11 A. M., Standard Time. Owner, Department of Public Works, Bureau of Surveys, 216 City Hall, Philadelphia. A—Branch sewers; B—Main sewers in Hegerman street and in Robbins avenue; C—Sewage disposal, 40th ward low land drainage; collecting sewer in 80th street, Island avenue and 75th street. Certified check 5%.

Packing Plant, Darien and Willow streets, Philadelphia. Engineer taking bids. Engineers, Henschein & McLanen, 1637 Pacific avenue, Chicago, Ill. Owner, John Morrell & Company, 816 Noble street, Philadelphia.

Residence, \$28,000, 9129 Green Tree road, Philadelphia. Permit issued. Architect, private plans. Owner, Judson M. Zane, 534 Land Title Building, Philadelphia. Stone, 2 stories, 28x28 feet, 35x18 feet, 18x24 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Shop, \$2,100, 505 Pelham road, Philadelphia. Permit issued. Architect, private plans. Owner, Germantown Steam Company, South Mole street, Philadelphia. Stone and concrete, one story, 46x38 feet.

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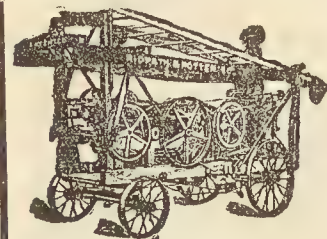
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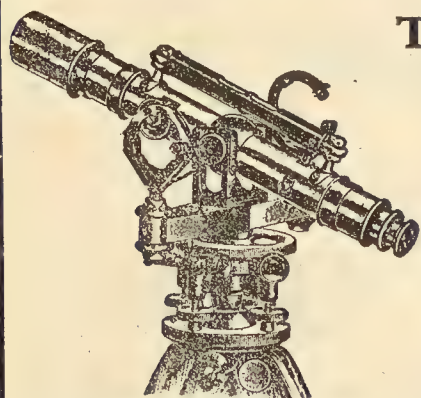
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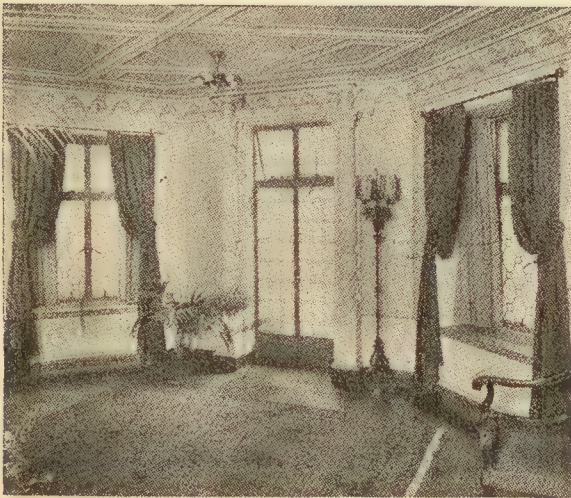
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Bank and Office Building, 14-20 West Cheltenham avenue, Philadelphia. Contract awarded Stofflet & Tillotson, Wesley Building, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Bank of Philadelphia & Trust Co., Leon Lewis, Broad and Diamond streets. Brick, limestone, steel, 14 stories and basement, 60x99 feet, reinforced concrete, demolition, ornamental terra cotta, cement work, rubber tile flooring, rolled steel skylights, metal partitions, kalamein doors, tin-clad doors, bronze work, steel counters, maple floors, hollow metal doors, carpentry and mill work, cabinet work, caulking, dampproofing, metal lath, plastering, imitation travertine, marble and terrazzo work, concrete roof, painting, glazing, bond, area gratings, excavation, iron stairs, R. I. W. waterproofing, Barrett specification roof, roof ventilators, steel sash, steel casement windows.

Restaurant and Retail Shop, 5541-43 North Fifth street, Philadelphia. Contract awarded Roberts & Roller, 1700 Walnut street, Philadelphia. Plumbing and heating, W. J. Donovan, 1635 Brandywine street, Philadelphia. Electric, Walker-Kepler, 531 Chestnut street, Philadelphia. Architect, R. B. Bencker, 1601 Chestnut street, Philadelphia. Owners, Horn & Hardart, 208 South Warnock street, Philadelphia. Brick, limestone, granite, steel, 2 stories and basement, 66x35 feet (plumbing, heating, electric separate bids), demolition, excavation, stone masonry, metallic waterproofing, hollow tile, iron work, metal bulks, metal covered doors, bronze work, metal toilet partitions, caulking, metal lath, plastering, carpentry and mill work, hardware, marble, tile and terrazzo work, bond, cement floors, iron stairs, area gratings, steel casement sash, built-up roof, rolled steel skylights, roof ventilators, metal bulks, oak floors.

Apartment House, Oxford avenue, between Dyre and Wakeling avenue, Philadelphia. Contract awarded Roxland Realty Co., Crozer Building, Philadelphia. All sub-bids let, work to start at once. Architect, Charles S. Schaef, 11 South Sixteenth street, Philadelphia. Owners, Belle Manor Corporation, care of Williard Swaab, Crozer Building, Philadelphia. Brick, steel, 4 stories, 135x220 feet,

irregular, 56 apartments, Spanish tile roof, slag roof, 3 elevators, hardware, hardwood floors, vapor heat, electric light, tile work, incinerators.

Fraternity House (alts.), 3537 Locust street, Philadelphia. Contract awarded Thomas C. Trafford, Inc., 2339 North Fifteenth street, Philadelphia. Architect, Albert E. Westover, 2209 Chestnut street, Philadelphia. Owners, Kappa Alpha Lodge, University of Pennsylvania, on premises. Electric work, wood work, hardware, painting, limestone.

Sunday School, Midvale avenue, East of Ridge avenue, Philadelphia. Contract awarded Thomas C. Trafford, Inc., 2339 North Fifteenth street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Falls of Schuylkill Baptist Church, Rev. W. J. Hays, 3635 Queen lane, Philadelphia. Stone, limestone, steel, 3 stories and basement, 62x35 feet, slag roof, cement and composition floors, plumbing (heating reserved), electric light, tile work, metal lath, cement work, excavation, ornamental iron work, carpentry and mill work, plastering, leaded glass, sprinkler system, steel sash, kalamein doors, fire doors, hardware (\$550 allowance).

Sub-Station, Sub-Station Building No. 7. Contract No. 215. Juniper, South of Pine street, Philadelphia. \$132,379. Contract awarded Kober Construction Co., 1616 West Thompson street, Philadelphia. Architect, private plans. Owners, Department of City Transit, City Hall Annex, Philadelphia. Brick, steel, terra cotta, 2 stories and basement, 80x80 feet (plumbing, electric separate), excavation, concrete and cement work, brick work, steel sash and doors, gypsum and slag roof, carpentry and mill work, hollow metal doors.

Warehouse, Wayne avenue and Berkley street, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Max Levy, on premises. Contract awarded Simms & Co., 123 South Twenty-first street, Philadelphia. Brick, reinforced concrete, 3 stories and basement, 86x75 feet, 2 stories, garage, 25x40 feet, demolition, excavation, concrete and cement work, iron work, architectural terra cotta, dampproof-

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ing, metal lath, plastering, carpentry and mill work, painting, glazing, metal toilet partitions, tin-clad doors, kalamein doors, safety treads, incinerators, safety treads, elevators, plumbing, sprinkler system, Barrett specification roof, Campbell metal windows.

Warehouse, Unity and Penn streets, Frankford, Philadelphia. Contract awarded William F. Lotz, Frankford and Oxford avenues, Philadelphia. Architect, W. E. Dyer, Land Title Building, Philadelphia. Owners, Frankford Grocery Co., J. A. Edgar, on premises. Brick, reinforced concrete, steel, 4 stories and basement, 50x235 feet, concrete and slag roof, cement floors, safety treads, integral waterproofing, rolled steel sash, fire doors, hollow metal doors, bond, iron work.

American Store Side Track (alts.), Thirtieth and Thompson streets, Philadelphia. Contract awarded Lutz Construction Co., Twenty-third and Chestnut streets, Philadelphia. Architect, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Metal-covered doors, excavation, concrete masonry, bond, structural steel, brick work, cement work, painting, repairs to roof.

Factory, Roberts avenue and Pulaski avenue, Philadelphia. Contract awarded William Steele & Son, Fifteenth and Cherry streets, Philadelphia, who are taking sub-bids. Architect, private plans. Owners, Vick Chemical Co., on premises. Brick, reinforced concrete, 3 stories, irregular in size, concrete slag roof, cement floors, electric light, rolled steel sash, ornamental iron.

Residence and Garage, Allen's lane and Schurz street, Chestnut Hill, Pa. Contract awarded Townsend, Schroeder & Wood, Drexel Building, Philadelphia. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Dr. George Woodward, North American Building, Philadelphia. Stone, 2½ stories and basement, 70x50 feet, irregular, slate roof, oak and pine floors, tile and marble work, bond, ornamental iron work.

Store and Meat Packing Plant, 3449 Frankford avenue, Philadelphia. Contract awarded Thomas C. Trafford, Inc., 2339 North Fifteenth street, Philadelphia. Architects, Stuckert Co., 1600 Arch street, Philadelphia. Owner, Daniel E. Strecker, care of architect. Brick, steel, 1 story, 31x100 feet, slag roof, pine floors, plumbing, electric light, ornamental iron work.

Sales and Service Building, 5521 Wayne avenue, Philadelphia. Contract awarded Harry Brocklehurst, 512 West Norris street, Philadelphia.

Architect, Robert L. Gill, 5600 Germantown avenue, Philadelphia. Owners, B. B. Lister & Son, 45 Maplewood avenue, Philadelphia. Brick, cast stone, steel, 1 story, 50x180 feet, slag roof, metal lath, tile work, cement floors, bond, ornamental iron work.

Residence (alts.), 32 Summit avenue, Chestnut Hill, Pa. Contract awarded C. C. Eddelman, 1713 Sansom street, Philadelphia. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, D. D. Dodge, on premises.

New Building Front, 720 Sansom street, Philadelphia. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia. Owners, Mr. and Mrs. Joseph Matz, 735 Sansom street, Philadelphia. Brick, stucco, 3 stories.

Meeting Room and Residence, \$10,000. 1712-14 Ontario street, Philadelphia. Contract awarded Philadelphia Construction & Repair Co., 1810 Poplar street, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owners, Memorial Apostolic Church, on premises. Brick, 2 stories, 36x65 feet and 16x10 feet.

Residence and Store (alts. and add.), \$2,000. Northeast Corner Sixteenth and Stiles streets, Philadelphia. Contract awarded Herman Geitner, 1322 North Twenty-eighth street, Philadelphia. Architect, private plans. Owner, Peter Cassidy, 1225 North Fifteenth street, Philadelphia. Brick, 1 story, 8x16 feet, general alterations.

Residence and Store (alts.), \$2,000. Southwest Corner Forty-sixth and Baltimore avenue, Philadelphia. Contract awarded Paul Brosz, 2517 West Huntingdon street, Philadelphia. Architect, private plans. Owner, A. C. Croff, on premises. General alterations.

Residence (alts.), \$2,000. 5356 Wingohocking street, Philadelphia. Contract awarded George H. Evans, 1416 Vine street, Philadelphia. Architect, private plans. Owner, Mrs. G. L. McCoy, on premises. General alterations.

Warehouse, \$3,000. 323-25 Pine street, Camden, N. J. Contract awarded Guiseppi De Medio, 1105 South Fourth street, Camden, N. J. Architect, private plans. Owner, James Marchisello, 323 Pine street, Camden, N. J. Brick, 2 stories, 24x40 feet, slag roof, electric work.

Residence (add. and alts.), 1427 Fitzwater street, Philadelphia. Contract awarded Kempf Brothers, 1339 North Howard street, Philadelphia. Architect, private plans. Owner, Robert J. Savage, on premises. Brick, 3 stories add., 8x17 feet, general alterations, \$6,000.

Garage (alts.), \$3,000. 508-12 North Fourth

street, Philadelphia. Contract awarded Hymowitz & Son, 317 South Sixth street, Philadelphia. Architect, private plans. Owner, J. M. Lukens, Third and Race streets, Philadelphia. General alterations.

Residence (add. and alts.), \$2,500. Northwest Corner Montague and Devereaux streets, Philadelphia. Contract awarded Jacob Gaertner & Son, 8315 Pine road, Philadelphia. Architect, private plans. Owner, Frank Peoples, on premises. Brick, 1 story add., 28x8 feet, general alterations.

Residence, \$2,400. North side Guyers avenue, East of Seventy-ninth street, Philadelphia. Contract awarded Thomas Smith, 3118 South Eighty-second street, Philadelphia. Owner, D. D. Ellis, Seventy-ninth and Guyers avenue, Philadelphia. Brick, 2 stories, 16x40 feet, hot water heat, electric light.

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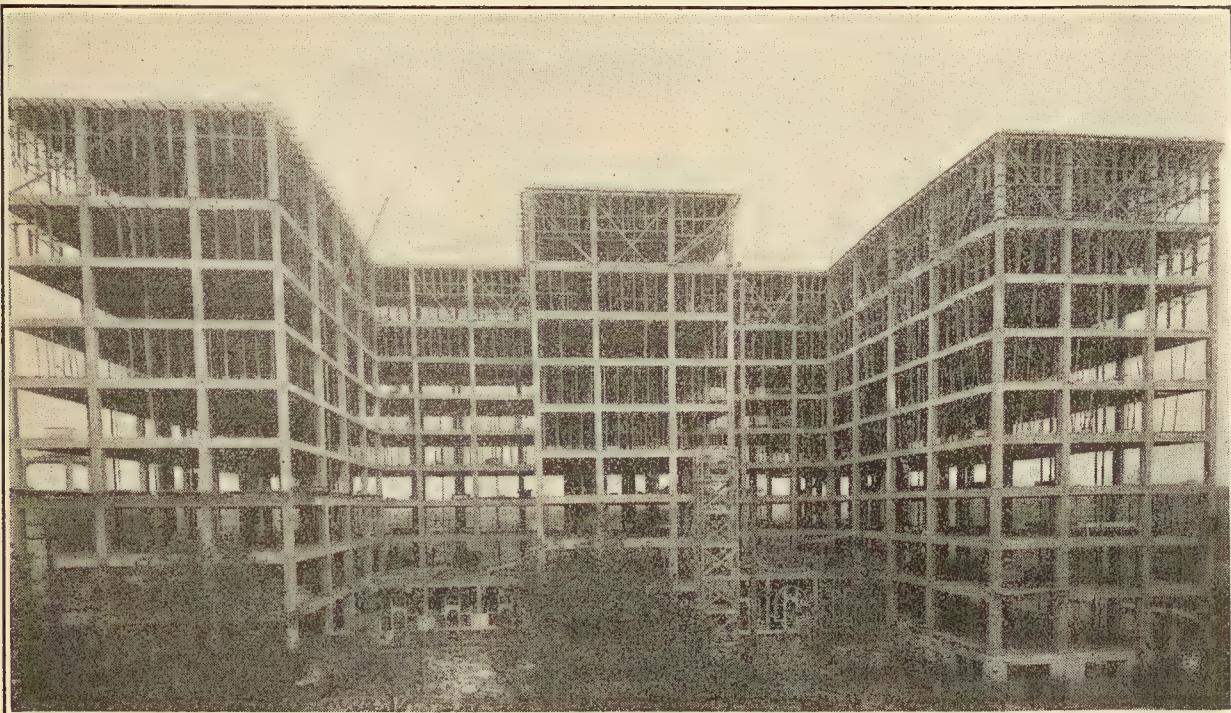
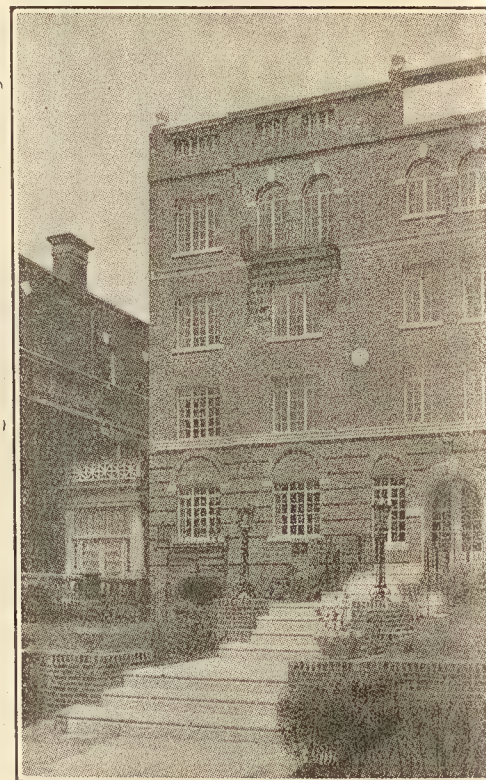
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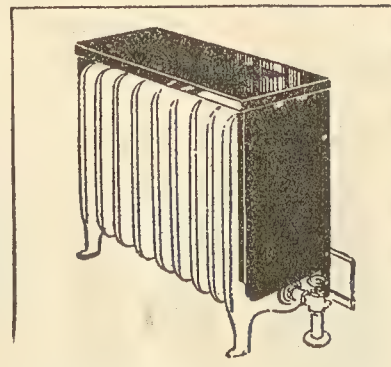
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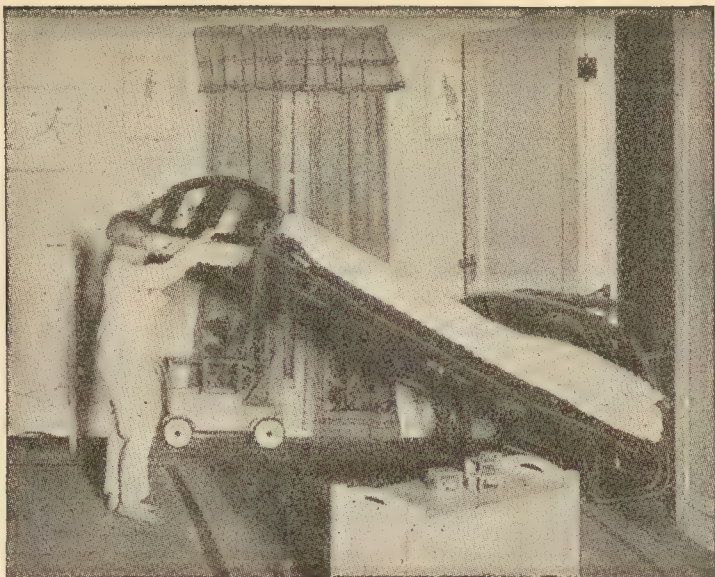
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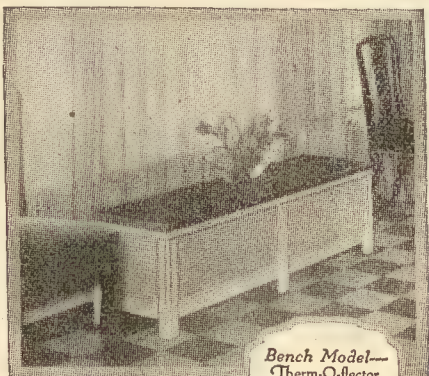
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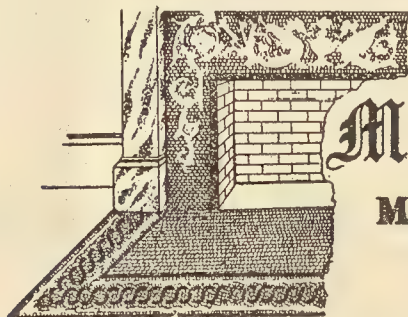
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adelphia. Contract awarded William J. Gruhler Co., 219 High street, Philadelphia. Owner, Mrs. F. W. Taylor, on premises. General alterations.

Restaurant (alts.), \$2,500. 1235 Filbert street, Philadelphia. Contract awarded Max Katz, 5002 North Hutchinson street, Philadelphia. Owners, Linton's Lunch, Broad and Wallace streets, Philadelphia. General alterations.

Residence (add.), \$2,000. 5123 North Broad street, Philadelphia. Contract awarded M. J. McCrudden, Thirty-fourth and Midvale avenue, Philadelphia. Architect, private plans. Owner, A. J. McCrudden, on premises. Brick, 1 story, 10x18 feet.

Miscellaneous Work. Contracts awarded. Owners, Department of Public Works, Bureau of Engineering and Surveys, Philadelphia. Hartel, Bradford, Glendale, Vattieri & Panterelli, 523 Rising Sun avenue, \$123,200. Wisconsin, Unruh and Cottman streets, Allen J. Henderson, Washington lane and East Chew street, \$16,667.30. Grading bridge approach, Rhawn street, F. A. Canuso & Son, 804 South Twelfth street, Philadelphia, \$56,899.75. Twentieth, Twenty-first, Twenty-second, Twenty-third street, Market to Arch, O'Neill Co., 127 East Mermaid lane, Philadelphia, \$313,126.55.

Miscellaneous Contracts Awarded. Cresson, Merrick, Gypsy, School House lane, Marino Masce, 3936 North Reese street, Philadelphia, \$1,051.20. Lexington, Ryan to Rhawn, Frank Mark Contracting Co., N and Wingohocking streets, \$12,711.50. Intersection of Twenty-fourth and Gray's Ferry avenue, Atlas Paving Co., 317 South Sixth street, Philadelphia, \$3,874.90. Girard, Schuylkill to Thirty-eighth street, Joseph Salvucci, 512 North Sixty-fifth street, Philadelphia, \$16,340.30. Seventeenth street, Ridge to Oxford street, F. A. Canuso & Son, 804 South Twelfth street, \$12,707.73.

Steel Shelving, Philadelphia. Owner taking bids due June 14th, 11 A. M., Standard Time. City Architect, W. S. Covell, City Hall Annex, Philadelphia. Owner, County Commissioner, 136 City Hall, Philadelphia. Deposit \$5 in cash.

Residence (alts.), \$4,800. 2717-19-21 South Alder street, Philadelphia. Contract awarded Schechtman Bros., Southwest corner 6th and Girard avenue, Philadelphia. Architect, private plans. Owners, Ephiphany Building and Loan Association, on premises. General alterations.

Office and Dwelling, 25th and Moore streets, Philadelphia. Contract awarded Havertick &

Borthwick, Schaff Building, Philadelphia. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Crean Brothers, 18th and Oregon avenue, Philadelphia. Brick, steel, 2 stories and basement, 50x20 feet, slag roof, maple and pine floors, linoleum, plumbing, hot water heat, electric light, metal lath, tile and marble work, casement windows, iron work.

Pennsylvania Construction News

Sunday School, Quakertown, Pa. Architect, Charles M. Talley, Telford, Pa. Plans in progress. Owners, St. John's Lutheran Church, Rev. Fitting, Quakertown, Pa. Brick, 2 stories, 60x75 feet, slag roof, pine floors, hot water heat, electric light.

Residence and Garage, Wynnewood, Pa. Preliminary plans in progress. Architect, H. Edward Williams, Drexel Park, Pa. Owner, T. J. Guyer, care of architect. Stone, 2½ stories.

High School, Tremont, Schuylkill County, Pa. Preliminary plans in progress. Architect, D. H. Grootenboer, Schuylkill Trust Building, Pottsville, Pa. Owners, Board of Education, L. T. Jones, secretary, Tremont, Pa.

Church Superstructure, Twenty-first and Edgemont streets, Chester, Pa. Plans in progress. Architects, Office of J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Nativity Lutheran Church, A. R. Cochran, 173 East Mowry street, Chester, Pa. Brick, 1 story, 40x60 feet, slate roof.

Junior and Senior High School, Gymnasium and Auditorium, Bucks County, Pa. Preliminary plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, New Hope Borough and Solebury Township School Board, Eva G. Gumby, Solebury, Pa. Brick, 1 story, 161x127 feet.

Wading Pool, near Stuart Armory, Elmwood Park, Norristown, Pa. Plans drawn. Work contemplated. Engineer, S. Cameron Corson, Norristown, Pa. Owners, Borough of Norristown, Civic Club, Norristown, Pa. Concrete, 50x100 feet, 7 inches to 12 inches deep.

Residence, Lancaster, Pa. Preliminary plans in progress. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owner, D. W. Ranck, care of architect. Stone, 2½ stories, 32x50 feet, slate roof, hardwood floors, tile work, electric light.

Residence, Lancaster, Pa. Plans in progress. Architect, Frank Everett, 122 East King

street, Lancaster, Pa. Owner, Edward Weaver, 233 Lancaster avenue, Lancaster, Pa. Brick, 2½ stories, 40x35 feet, slate roof, hardwood floors, electric light, tile work.

Office (alts. and add.), Lancaster, Pa. Plans completed. Architect, Frank Everett, 122 East King street, Lancaster, Pa. Owner, John Snyder, care of architect. Brick, steel, 2 stories, 110x35 feet, pine floors, Warren Webster heat, electric light, steel sash.

Residence (add. and alts.), Paoli, Pa. Preliminary plans in progress. Architect, Frank Everett, 122 East King street, Lancaster, Pa. Owner, Thomas Dalton, Paoli, Pa. Stone, 2 stories.

Residence (alts. and add.), West Chester pike, West Chester, Pa. Preliminary plans in progress. Architect, Frank Everett, 122 East King street, Lancaster, Pa. Owner, Lloyd Renshaw, care of architect. Brick, 2 stories.

Stores (3), Coatesville, Pa. Revised plans in progress. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owners, Cohen Brothers, Main street, Coatesville, Pa. Steel, brick, 2 stories, 60x125 feet, composition roof, maple floors, electric work, metal lath, tile work, steel sash.

Residence, Holbrook and Glenview road, Bryn Mawr, Pa. Ready for bids in 3 weeks. Architects, Thomas Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, Elmer G. Pursley, 1421 Chestnut street, Philadelphia. Stone, 2½ stories.

Service Station, 226 East Lancaster avenue, Wayne, Pa. Owner will build. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owner, William J. O'Brien, 1316 Locust street, Philadelphia. Brick, steel, concrete, block, 1 story, 60x60 feet, slag roof, concrete floors, electric light.

Hospital, Easton, Pa. All bids rejected. Revised plans in progress. New bids will be taken. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Easton Hospital, H. Lehr, 1200 Butler street, Easton, Pa. Brick, reinforced concrete, steel, cement work.

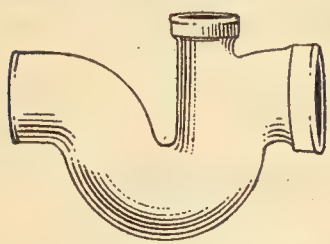
Apartment House, Garrett road and Wayne avenue, Upper Darby, Pa. Arey Hauser Co., Elverson Building, Philadelphia, taking sub-bids. Architect, name withheld. Owner, name withheld. Brick, 6 stories and basement, 190x44 feet, 2 wings, 44x54 feet each, slag roof, hardwood and cement floors, steam heat, electric light, tile work.

Warehouse, Fifth and Crosley streets, Chester, Pa. Architect ready for bids. Architect, Frank C. Watson, Chester, Pa. Owners, Edwin Garrett & Son, Sixth and Welsh streets, Chester, Pa. Brick, 2 stories, 30x60 feet, slag roof, cement floors, electric light.

Residences (26), Coplay road, between Walnut and Locust streets, Upper Darby, Pa. Owners taking sub-bids. Architect, David W. Schwartz, 4336 Otter street, Philadelphia. Owners, Steinman & Lesse, Fifty-ninth and Ludlow streets, Philadelphia. Brick, 2 stories, 16x42 feet, slag and slate roof, hardwood floors, hot water heat, electric light, tile work.

Residences (3), Wyomissing, Pa. Owners will build. Architect, M. B. Dechant, 632 Washington street, Reading, Pa. Owners, Wyomissing Development Co., 832 Penn avenue, Wyomissing, Pa. Brick (2), stone (1), 2½ stories, 20x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Hospital, Reading, Pa. Architect will be ready for bids in one week. Architect, M. B. Dechant, 632 Washington street, Reading, Pa. Owners, Homeopathic Hospital, F. S. Sertz, 135 North Sixth street, Reading, Pa. Fireproof, 2 stories and basement, 35x90 feet,



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built-up roof, composition floors, dumb waiters, safety treads, roof ventilators, damp-proofing, architectural terra cotta, fire doors, steel sash and skylights, tile, marble, steam heat, electric light.

Residence, Pottstown, Pa. Architects ready for bids. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owner, Dr. C. Hancox, Pottstown, Pa. Brick, stone, 2½ stories, 15x1 4feet, 37x24 feet, 12x12 feet, slate roof, hardwood floors, electric light, tile work.

School (int. alts.), Richboro, Pa. Plans completed. Owners will soon take bids. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owners, School Board of Richboro, Pa. Interior alterations and new toilets.

Sunday School Addition to Church, Bryn Mawr, Pa. Architects will be ready for bids in 3 weeks. Architects, Karcher & Smith, 1520 Locust street, Philadelphia. Owners, Bryn Mawr Presbyterian Church, Bryn Mawr, Pa.

Residence and Garage, Lynmere road, Bryn Mawr, Pa. Owner taking sub-bids and general bids. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, G. Herbert Taylor, 1518 Walnut street, Philadelphia. Stone, clapboard, 2 stories, 100x40 feet, shingle roof, hardwood floors, electric light, tile work.

Sunday School (add.), Waynesboro, Pa. Architect will be ready for bids first of next week. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Lutheran Church of Waynesboro, Rev. Dr. Travis, Waynesboro, Pa. Brick, stone, 2 stories and basement, 80x150 feet, slate roof.

Church (alts.), Reedsville, Pa. Owners will take bids. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, Lutheran Church, Rev. C. R. James, Reedsville, Pa. General interior alterations.

Steel Hangar, Middletown, Pa. Owners taking bids due June 15th. Architects, Construction Service, Office of Quartermaster General, Washington, D. C. Owners, United States Government, Washington, D. C. Steel, 110x200 feet, gypsum ceiling, painting, asbestos metal roof, plumbing, bond, excavation, concrete foundations.

Fire House, Linwood, Pa. Owners taking bids. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owners, Linwood Fire Company, No. 1, Thomas Hayes, Court House, Media, Pa. Cast stone, brick, artificial stone, 2 stories, 40x65 feet, asbestos shingle (double) roof, pine, cement, rubberstone, tile floors, steam heat, electric light, plumbing.

Residence (alts. and add.), Merion, Pa. Architect taking bids due June 14th. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owner, T. Johnson Ward, Merion, Pa. Stone, 2½ stories and basement, 25x35 feet, shingle roof, oak and pine floors, stair work, painting and glazing, iron work, plastering, carpentry, mill work, metal lath, tile work, bond, ornamental iron work.

Court House (add.), \$1,500,000. Media, Pa. Architect, C. W. Brazier, Chester, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. White marble, 3 stories and basement. Owners taking bids due July 2nd, 10 A. M.

Residence and Garage, Hilltop road, Noble, Pa. Architects taking bids due June 18th. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Charles S. Redding, Jenkintown, Pa. Stone, 2½ stories and basement, 28x33 feet, wing 48x20 feet, garage, 20x24 feet, oak, pine, cement floors, slate roof (plumbing, heating, electric, tile reserved), bond, excavation, plastering, flagstone, caulking, iron work, metal lath.

Church, Fifth street, Harrisburg, Pa. Architect taking bids due June 17th. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Fifth Street Methodist Episcopal Church, David Wise, care of architect. Brick, third story add., 40x120 feet, maple floors, kitchen equipment, showers.

Church (alts. and add.), Hamburg, Pa. Architects taking bids due June 14th. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, First Reformed Church, Rev. D. R. Krebs, 142 North Fourth street, Hamburg, Pa. General interior alterations, slate roof, composition floors, cut stone, cinder concrete block.

School, York Springs, Pa. Owners taking bids due June 15th. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, York Springs School Board, A. T. Bennett, York Springs, Pa. Brick, steel, 1 story, 33x130 feet, composition roof, maple floors (heating, plumbing and electric separate).

Two-Family Residence, Stuart and Windemere avenue, Lansdowne, Pa. Architect taking bids due June 17th. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, name withheld. Brick, stone, 3 stories, 40x55 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work.

Factory, Lancaster, Pa. Architect taking bids due June 15th. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Dewalt Products Corporation, care of architect. Brick, steel, 1 and 2 stories, 100x225 feet, composition roof, concrete floors, roof ventilators, vapor heat, electric light, steel sash, fire doors.

Residence, Old Forrest road and Hunter's lane, Carroll Park, Delaware County, Pa. Architects taking bids due June 13th. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owner, Ben L. Carroll, care of architect. Stone, frame, 2½ stories and basement, irregular in size; shingle roof, oak and pine floors, plumbing, hot water heat, electric light, metal lath, tile work.

School, Bethel road westward from Twin-oak Cross Road, Twin Oaks, Pa. Owners taking bids due June 26th, 5 P. M. (Standard Time). Architect, F. C. Watson, Crozer Building, Chester, Pa. Owners, Upper Chichester Township School District, G. M. Snyder, president; Mrs. M. H. Young, 24 Poulson road, Boothwyne, Pa. Brick, 1 story, 35x100 feet, slag roof, maple floors, steam heat. Deposit, \$20, refunded \$15. Certified check, 5 per cent.

Y. W. C. A., \$50,000. Coatesville, Pa. Architects taking bids due June 17th. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owners, Y. W. C. A., care of Miss May Penman, Coatesville, Pa.

Residence and Garage, Drexel Park, Pa. Architect taking bids due June 14th. Architect, Harold Edward Williams, Garrett road, Drexel Park, Pa. Owner, Miss Sarah I. Cosgrave, care of architect. Stone, steel, 2½ stories and basement, 55x31 feet, garage 20x27 feet, shingle roof, oak and pine, cement floors, plumbing, metal weather strip, flagstone, hot water heat, electric light, metal lath, tile and marble work, bond, ornamental iron work, area gratings, plumbing, insulite.

Fire Tower, Shoemaker School, Ogontz, Pa. Owners, School District of Cheltenham Township, A. L. Rowland, superintendent. Owners taking bids due June 21st, 12 o'clock noon. Specifications from Administration Office in Elkins Park.

Schools (4). Cornwells, Andalusia, Trevoise, Eddystone, Pa. Low bidders. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board; A. T. Lippincott, Cornwells, Pa. Cornwells School—W. J. Stevens, Wyncote, Pa., \$70,281; Roy Randall, Jenkintown, Pa., \$71,746; heating and ventilating, Chrissman & Quillman, Norristown, Pa., \$11,988; electric, Louis Fitzgerald, Newtown, Pa., \$2,594; plumbing, Edgely Plumbing & Heating Company, Edgely, Pa., \$4,021; electric clock, Harry Hart, 7010 Ditman street, Philadelphia, \$1,150. Andalusia School—Roy Randall, Jenkintown, Pa., \$14,598; Chancellor Day, 3504 Rhawn street, Philadelphia, \$14,958; heating and ventilating, Frank Boyer, Norristown, Pa., \$1,588; plumbing, Fred Wackenhutt, 2416 Frankford avenue, Philadelphia, \$1,405; electric, Harry Hunt, 7010 Ditman street, Philadelphia, \$365. Trevoise School—Chancellor Day, 3504 Rhawn street, \$9,575; Fesmire Brothers, Huntingdon Valley, Pa., \$10,912; heating, Edgely Heating & Plumbing Co., Edgely, Pa., \$1,461; plumbing, Edgely Heating & Plumbing Co., Edgely, Pa., \$315; electric, Harry Hunt, 7010 Ditman street, Philadelphia, \$425. Eddystone School—S. Van Sant, Bridgewater, Pa., \$3,000; Stoneback & Nace, Quakertown, Pa., \$3,660.

Church, Columbia, Pa. Low bidder: G. W. Paules, Columbia, Pa. Architects, Leber & Hatton, Hay Building, York, Pa. Owners, Salome United Brethren Church, Rev. Haessler, 540 Walnut street, Columbia, Pa. Brick, 1 story and basement, 80x80 feet, slate roof,

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School, Dauphin, Pa. Low bidder, W. E. Bushey, Lemoyne, Pa. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owners, Middle Paxton Township School Board, Dauphin, Pa. Brick, steel, 1 story, 75x60 feet, shingle roof, pine floors.

Residence and Garage, Fort Washington, Pa. Architect taking bids. Architect, Thomas Martin & Kirkpatrick, 220 South 16th street, Philadelphia. Owner, C. Jare Ingersoll, Fort Washington, Pa.

Residence and Garage, Hilltop road, Noble, Pa. Architect taking bids due June 18th. Architect, Morris and Erskine, 1716 Cherry street, Philadelphia. Owner, Charles S. Redding, Jenkintown, Pa.

Buildings (5), Girard Point, Pa. Architect, Edward B. Lee, Chamber of Commerce Bldg., Pittsburgh, Pa. Owner, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Owner taking bids.

School, Camp Hill, Pa. Low bidder, A. B. Hertzler, Camp Hill, Pa. Architects, E. J. Minick and S. H. Jamison, 23 North 3rd st., Harrisburg, Pa. Owners, Camp Hill Borough School Board, Jonas Wagner, president, 1418 Walnut street, Camp Hill, Pa. Brick, reinforced concrete, one story and basement, 190x30 feet, slate roof, maple floors, cinder block or hollow tile, metal lath, bond.

Bank and Office Building, Media, Pa. Preliminary sketches being prepared. Work contemplated. Architects, Tilghman & Moyer, Allentown, Pa. Owner, Media Title & Trust Co., Frank B. Rhoades, Media, Pa.

Bridge, Lincoln avenue, over Darby Creek, between Prospect Park and Essington, Pa. Plans in progress. Engineer, George Wright, Media, Delaware County, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Reinforced concrete, probably drawn span 250 feet long, 40 feet wide.

Bridge, East Eighth street, Chester, over Ridley Creek. Engineer, George Wright, Media, Delaware County, Pa. Plans in progress. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Stone faced arch, 130-foot span, 60 feet wide.

Bridge, Waterville, over Ridley Creek, on line of Chestnut street, between Chester and Nether Providence, Pa. Plans in progress. Engineer, George Wright, Media, Delaware

County, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Two 45-foot spans, concrete, T beams const., 50 feet.

Road Work, Pennsylvania. Owners taking bids due June 18th, at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa.

Allegheny County, R-70-4, B 1, A-4358, 3758-A, Harmar Township, 804 feet. One course reinforced concrete, 1,059 feet. One course reinforced concrete and vitrified brick pavement. Certified check, \$1,000.

Allegheny County, R-76, Sec. 4, Corapolis Borough, Robinson, Kennedy and Moon Townships, 16,360 feet. One course reinforced concrete. Check, \$3,500.

Clearfield County, R-57, Sec. 2, Decatur Township, Chester Hill Borough, 14,841 feet. One course reinforced concrete. Certified check, \$3,000.

Delaware County, R-133, Upper Darby Township, Millbourne Borough, 1,897 feet. One course reinforced concrete. Certified check, \$500.

Erie County, R-85, 86, Springfield Township, 13,115 feet. One course reinforced concrete, dual type construction, 3,764 feet. One course reinforced concrete. Certified check, \$2,500.

Fayette County, R-50, Sec. 1, Wharton, North Union and South Union Townships, 26,252 feet. One course reinforced concrete, 185 feet bituminous surface treated macadam surface course. Certified check, \$6,000.

Indiana County, R-63, Sec. 4, Rayne Township, 2,745 feet. One course reinforced concrete. Certified check, \$500.

Lebanon County, R-140, Sec. E1, Union Township, 1,229 feet. One course reinforced concrete. \$500.

Lehigh County, A-6217, Hanover Township, 8,548 feet. One course reinforced concrete. Certified check, \$1,500.

Lycoming County, R-20, Sec. 8, Lewis and McIntyre Townships, 42,291 feet. One course reinforced concrete. Certified check, \$3,500.

Northumberland County, R-1, A-5034, Lower Augusta and Upper Augusta Townships, 11,074 feet. One course reinforced concrete. Certified check, \$2,000.

Northumberland County, R-182, Gearhart,

Rush and Ralpho Townships, 38,243 feet. One course reinforced concrete. Certified check, \$7,000.

Warren County, R-89, A-5547, Eldred, Deerfield and Pittsfield Townships, 15,694 feet. One course reinforced concrete, 668 feet grading and drainage. Certified check, \$2,000.

Washington County, R-113, Sec. 8, R-268, Sec. 8A, East Pike Run Township, Centerville Borough, 11,568 feet. One course reinforced concrete. Certified check, \$2,500.

Road Work, Pennsylvania. Owners taking bids due June 19th at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa.

Allegheny County, R-108, Sec. 4, R-545, Scott, Collier and South Fayette Townships, 11,719 feet. One course reinforced concrete. Certified check, \$3,000.

Allegheny County, R-246, Sec. 4, Pine and Marshall Townships, 20,640 feet. One course reinforced concrete. Certified check, \$3,500.

Blair County, R-53, Sec. R2, Allegheny and Juniata Townships, 15,982 feet. One course reinforced concrete. Certified check, \$3,500.

Blair County, R-260, Sec. R-6, R-537, Sec. 2, Frankstown Township, 21,262 feet. One course reinforced concrete. Certified check, \$3,000.

Luzerne County, R-4, Sec. 6-A, Larksville, Edwardsville and Kingston Boroughs, 4,417 feet. One course reinforced concrete. Certified check, \$1,000.

McKean County, R-211, R-211 Spur, A-6223, Otto Township, 1,787 feet. One course reinforced concrete, consisting of combination, concrete curb and gutter. Certified check, \$500.

Mifflin County, R-192, Brown Township, 3,702 feet. Grading and drainage. Certified check, \$500.

Montgomery County, R-362, Sec. 1, Appl. 5576, Abington Township, 5,300 feet. One course reinforced concrete. Certified check, \$1,000.

Schuylkill County, R-185, Rush and Kline Townships, 1,527 feet. One course reinforced concrete. Certified check, \$1,000.

Tioga County, R-103, Lawrence Township, Lawrenceville Borough, 15,384 feet. One course reinforced concrete. Certified check, \$2,500.

Tioga County, A-5762, Mansfield Borough, 1,987 feet. One course reinforced concrete. Certified check, \$500.

Warren County, R-95, A-4892, Sheffield Township, 6,894 feet. One course reinforced concrete. Certified check, \$1,500.

Washington County, R-268, Sec. 10, East Bethlehem Township, Centerville Borough, 1,694 feet. One course reinforced concrete, 300 feet grading and drainage. Certified check, \$1,500.

Pennsylvania Contracts Awarded

Residence, Merion, Pa. Contract awarded Powell Construction Co., Ardmore, Pa. Taking sub-bids. Architect, private plans. Owner, H. G. Mitchell, Merion, Pa. Brick, frame, 2½ stories and basement, 50x40 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, iron work.

New Church and Alterations to Sunday School, Chambersburg, Pa. Contract awarded Quigley-Hafer Co., Chambersburg, Pa. Architects, Office of John B. Thompson, architect, and L. De Forrest Emmert, 1321 Arch street, Philadelphia. Owners, Trinity Lutheran Church, Chambersburg, Pa. Stone, cast stone, steel, 1½ stories and basement, 109x62 feet,



AN EXAMPLE OF ART CAEN STONE, WINDOW OF M. CAPLAN, 331 SOUTH ST.

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slate roof, maple, cement floors, linoleum, steam heat, electric light, metal lath, bond, ornamental iron work, leaded glass, composition floors, demolition, excavation, caulking, steel casement sash, wall finish, hardware, iron work, leaded glass.

Swimming Pool and Bath House, Radnor, Pa. Contract awarded McNeill Construction Co., Schaff Building, Philadelphia. Owner, J. S. C. Harvey, Radnor, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Brick, 1 story, 21x36 feet, swimming pool, 50x24 feet, excavation, concrete and cement work, brick work, flagstone, iron work, carpentry and mill work, tile work, brick work, flagstone, iron work, carpentry, hardware, painting, glazing, plumbing, electric work, shingle asbestos roof.

Storage Building, Oaks, Pa. Contract awarded F. J. Schuler, Norristown, Pa. Architect, private plans. Owners, Philadelphia Rubber Works, Oaks, Pa. Brick (between two buildings), 50x80 feet, wood built-up roof, iron work, cement floors, continuous Monitor sash, operating devices.

School, Lebanon Independent Borough, Pa. Contract awarded W. E. Bushey, Lemoyne, Pa. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owners, Lebanon Independent Borough, Charles Boltz, Lebanon, Pa. Brick, steel, 2 stories, 10 rooms, steel sash, composition roof, pine floors, roof ventilators, iron stairs.

Club House, Reading, Pa. Contract awarded Fink Construction Co., 510 Walnut street, Reading, Pa. Plumbing and heating, Herbert S. DeHart, 1126 Chestnut street, Reading, Pa. Electric, Stitzer & Waldman, 438 Penn avenue, West Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Reading Lodge, No. 115, B. P. O. E., care of architect. Brick, steel, 1 story, 50x85 feet, gypsum and built-up roof, maple floors, heating extension, electric work, metal lath, maple floors, tile, marble.

Show Room and Garage, Norristown, Pa. Contract awarded Frank Diamond, Norristown, Pa. Architect, Albert Glisson, 31 East Spruce street, Norristown, Pa. Owners, Hitter Brothers, Inc., 620 East Airy street, Norristown, Pa. Brick, steel, 1 story, 120x25 feet, slag roof, cement floors, steam heat, electric light, metal doors, structural steel, hollow metal sash and skylights. Contract on Cost Plus Basis.

Residence and Garage, Howell road, near Meeting House lane, Merion Park, Pa. Contract awarded Purring Brothers, Narberth, Pa. Architect, Jesse Hoekstra, 1713 Sansom street, Philadelphia. Owner, W. A. Wilkinson, Lewis Building, Philadelphia. Brick, frame, 2½ stories, 28x66 feet, slate roof, hardwood and pine floors, linoleum, refrigeration (plumbing, heating, electric reserved), tile work, incinerators.

Store and Offices, Southeast Corner Ludlow and Long lane, Upper Darby, Pa. Contract awarded Smith-Hardican Co., 1809 Callowhill street, Philadelphia. Architect, H. B. Weldon, 1817 Callowhill street, Philadelphia. Owners, Kershaw & Raney, Stonehurst, Pa. Brick, steel, 2 stories and basement, 74x30 feet, slag roof, oak and pine floors, marble work, ornamental iron work.

Residence, Wallingford, Pa. Contract awarded McNeill Construction Co., Schaff Building, Philadelphia. Architect, Harvey Stevenson, 101 Park avenue, New York. Owner, Alan C. Valentine, Swarthmore, Pa. Stone, 2½ stories, hot water heat, concrete and cement work, excavation, iron work, sheet metal work, asbestos slate roof, canvas roof, metal lath, plastering, stucco, tile work, carpentry and mill work, hardware, glazing, painting, electric work, plumbing.

School Building, Bishophollow road, Newtown Square, Pa. Contract awarded J. C. Mahoney, Drexel Hill, Pa., \$5,100. Plumbing, Joseph Rhoades, Newtown Square, \$245. Heating, American Heating & Ventilating Co., Schaff Building, \$2,200. Electric, Teesdale Service Co., 5421 Market street, Philadelphia, \$344.10. Owners, Newtown Square Township School Board, T. J. Campbell, secretary, Newtown Square, Pa. Architect, private plans. Completion and finishing second floor, painting outside of building and basement, first floor walls and frame work.

Administration Building (alts.), Drexel Park, Pa. Contract awarded H. H. Wehmeyer, 509 West Cumberland street, Philadelphia. Architect, Edgar A. Wightman, Bankers' Trust Building, Philadelphia. Owners, Arlington Cemetery, Drexel Park, Pa. General interior alterations, tin roof, hot water heat, electric light, carpentry and mill work, cement work.

Office and Apartment (alts. and add.), 428 West Market street, York, Pa. Contract awarded I. Riandollar & Son, 34 East Springettsbury avenue, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owners, Dr. W. H. Schellhamer, 477 West Market street, York, Pa. Brick, 2 stories add., hardwood floors, tile work, alterations.

Hospital, Lancaster, Pa. Contract awarded H. L. Wiant, 544 Mill street, Lancaster, Pa. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owners, Lancaster General Hospital, F. C. Hils, on premises. Brick, steel, 2 stories, composition floors, hollow tile, elevators, safety treads, roof ventilators, electric work, metal lath, tile.

First Unit of \$1,500,000 Stadium, Overbrook, Pa. Contract awarded James M. Doyle, 3016 Chestnut street, Philadelphia. Architect, Sigmund J. Laschenski, Harrison Building, Philadelphia. Owners, St. Joseph's College, Rev. William T. Tallon, S. J., president, on premises. Excavation, stone, masonry, concrete work, cement work, tile work, waterproofing (Penetrite), metal toilet partitions, caulking, plastering, painting, glazing, electric work (plumbing, heating reserved).

Parish House (alts. and add.), Drexel Hill, Pa. Contract awarded H. John Homan, Eighteenth and Cherry streets, Philadelphia. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Chapel of the Incarnation, Drexel Hill, Pa. Stone, 1 story and basement, 108x30 feet, slate roof, pine floors, steam heat, electric light.

Parish House, Lansdale, Pa. Contract awarded H. John Homan, Eighteenth and Cherry streets, Philadelphia. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Holy Trinity Episcopal Church, Lansdale, Pa. Stone, 1½ stories and basement, 79x44 feet, bond, reinforced concrete, carpentry, mill work, structural steel, plastering, metal lath, hardware, plumbing, electric work, hot water heat, slate roof, steel sash, painting, glazing, plumbing, electric work, hot water heat, slate roof, steel sash, painting, glazing, plumbing.

School, Friedensburg, Pa. Contract awarded William Wiant, 368 North York street, Pottstown, Pa. Electric, to Keystone Elec. Co., 705 North Ninth street, Reading, Pa. Plumbing to Stanffer & Shirley, Reading, Pa. Architects, School & Richardson, 510 Walnut street, Reading, Pa. Owners, Oley Township School Board, I. S. Rotherberg, Limekiln, Pa. Brick, steel, 2 stories and basement, 134x150 feet, maple floors, safety treads, roof ventilators, metal lath, steel sash, bond.

Residence and Garage, Bala, Pa. Architect, Harold E. Williams, Drexel Park, Pa. Contract awarded Martin F. Burk, 5813 Florence avenue, Philadelphia, who is making sub-bids.

Owners, McKinney & Co., McClatchey Building, Upper Darby, Pa. Stone, frame, 2½ stories, 30x65 feet, hot water heat, electric light, tile work.

Store and Apartment (alts. and add.), Norristown, Pa. Contract awarded H. M. Alderfer, Norristown, Pa. Architect, private plans. Owner, Earl McCoy, 324 DeKalb street, Norristown, Pa. Brick, 2 stories, general alterations and additions.

Residence (add. and alts.), Morrisville, Pa. Contract awarded Bennett & James, Broad Street Bank Building, Trenton, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owner, Dr. Henry M. Rowan, 902 North Pennsylvania avenue, Morrisville, Pa. Porch addition, general interior alterations to residence.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Fayette County, R-113, Sec. 3, Brownsville, Menallen and Redstone Townships. One course reinforced concrete. Fort Pitt Construction Co., Pittsburgh, Pa., \$435,551.33.

Blair County, R-260, Sec. R-3, A and B, Frankstown Township. One course reinforced concrete, grading and drainage. Samuel Domienick, Altoona, Pa., \$84,396.09.

Allegheny County, R-377, A-5566, Versailles and North Versailles Townships. One course reinforced concrete. A. G. Rothery, Elizabeth, Pa., \$185,885.41.

Westmoreland County, R-119, Sec. 3B-4B, Ligonier and Unity Townships. One course reinforced concrete. J. I. Dick, Scottdale, Pa., \$233,774.51.

Lycoming County, R-20, Old Lycoming Township. One course reinforced concrete. A. W. Hinaman Construction Co., Williamsport, Pa., \$49,333.07.

Luzerne County, R-170, Sec. 6, Butler, Dorrance, Wright and Fairview Townships. One course reinforced concrete. Rudolph & Delano, Tamaqua, Pa., \$492,067.82.

Chester County, Route 131, Kennett Township, bridge, reinforced concrete. King & O'Brien, Wayne, Pa., \$19,713.62.

Armstrong County, viaduct over Pine Creek & B. R. & P. R. Valley Township, Route 66. Pitt Construction Co., Pittsburgh, Pa., \$70,978.72.

Delaware County, R-144, Newtown Township. One course reinforced concrete. Dalton Brothers, Inc., Paoli, Pa., \$55,917.96.

Northumberland County, R-1, A-5014, Lower Augusta Township. One course reinforced concrete. L. R. Matthieu, Altoona, Pa., \$69,175.23.

Centre County, R-219, Sec. 4, Boggs-Howard Townships, Milesburg Borough. One course reinforced concrete. Lord Construction Co., Hastings, Pa., \$259,974.60.

New Jersey Construction News

Residence, Bridgeton, N. J. Architect taking bids due June 14th. Architect, Thomas Edward Ash, 2021 Chancellor street, Philadelphia. Owner, Philip Rowner, Bridgeton, N. J. Brick, steel, 2½ stories and basement, 55x33 feet, asbestos shingle roof, oak and pine floors, metal lath, tile and marble work, bond, casement windows, ornamental iron work, bluestone, cinder concrete blocks, excavation, concrete and cement work.

Residences and Garages (2), \$4,500 each, 416-18 North Fortieth street, Camden, N. J. Permit issued. Architect, private plans. Owner, Clifton I. Lovelace, 1601 Forty-eighth street, Merchantville, N. J. Brick and block,

2 stories, 18x32 feet, garages 10x17 feet, slag roof, hot water heat, electric light.

Miscellaneous Work, Magnolia, N. J. Engineer, Marshall N. Hammon, Jr., Audubon, N. J. Owners taking bids due June 13th, 8 P. M. (Daylight Saving Time). Owners, Borough Council, O. E. Hagen, clerk, Magnolia, N. J. Deposit, \$10. Refund, \$5. Certified check, \$500. 2,300 square feet sidewalk, remove and reconstruct. 118 square yards 8-inch concrete cross gutters, to construct. 330 feet 24-inch T. C. pipe, furnish and place. 57 cubic yards mass concrete structure.

Contract 30-7, Camden County, N. J. Owners taking bids due June 20th, 8 P. M. (Daylight Saving Time). Owners, Commissioners of Camden County, Z. M. Castor, 807 Wilson Building, Camden, N. J. Tennis court fence, playground enclosure. Deposit, \$5, refunded. Certified check, 10 per cent. 608 feet 6 feet high, four 6-foot end posts, three 6-foot corner posts, 290 feet 10 feet high, 5 corner posts 10 feet, 2 10-foot end posts.

Bridge, Route 31, Sec. 4, across Raritan River, Somerville Bypass, Somerset County, N. J. Owners taking bids due June 24th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation excavation, concrete, reinforcing steel, borrow, sheet asphalt pavement, unclassified excavation. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners taking bids due June 24th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 3, Sec. 3, Randolph avenue to Market street, Passaic County. Excavation, borrow, reinforced concrete pavement.

Route 21, Sec. 5, North of Chester avenue, Newark to Belleville Turnpike, Belleville, Essex County. Unclassified excavation, borrow, reinforced concrete pavement, bituminous macadam pavement, excavation for retaining wall, concrete. Certified check, 10 per cent. Deposit, \$10.

Building (restoration), Delaware and Cooper streets, Camden, N. J. Preliminary plans in progress. Architect, The Ballinger Co., 12th and Chestnut streets, Philadelphia. Owner, Esterbrook Steel Pen Co., on premises. May consist of strengthening and general restoration.

Hospital, Somerset Hill, N. J. Low bidders: Architect, Construction Department, 764 Arlington Building, Washington, D. C. Owner, U. S. Veterans Bureau, F. T. Hines, Director, Arlington Building, Washington, D. C. Murch Bros. Construction Co., St. Louis, Mo., \$870,000; Agostini Bros., New York City, \$902,784; Pellecche Construction Co., Newark, N. J., \$915,000.

New Jersey Contracts Awarded

Water Works, \$83,000, Gibbstown, N. J. Contract awarded E. R. Moorhouse Co., 315 Market street, Camden, N. J. Engineer, Carter, Edgar & Wittwer, Woodbury, N. J. Owner, Borough of Gibbstown, N. J. Brick, tile, 1½ stories, 30x60 feet, reinforced concrete work, pumps, machinery.

Hospital Building, North Jersey Training School for Feeble Minded, Totowa, N. J. Contract awarded Charles Cona, 385 Haledon avenue, Paterson, N. J. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House,

Trenton, N. J. Brick, concrete block, steel, limestone, 2 stories and basement, 134x53 feet, excavating, reinforced concrete, membrane and integral waterproofing, cement floors, dampproofing, floor hardener, incinerator, bluestone, area gratings, iron stairs, plastering, metal window guards, kelemain doors, slate roof, metal lath, plaster bond, caulking, hardware, linoleum, rubberstone, tile, marble, screens.

Hall No. 2, \$63,700. Reformatory for Women, Clinton, N. J. Contract awarded David Teitz, 414 Market street, Trenton, N. J. Plumbing, Arthur Maddox, Montclair, N. J., \$5,255. Heating, Nelson Piping & Equipment Co., 706 Delancey street, Philadelphia, \$4,270. Electric, Hockenbury Electric Co., Somerville, N. J., \$1,942. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, brick, steel, 2½ stories and basement, 128x29 feet, membrane and integral waterproofing, concrete block, structural steel and iron, kalamein doors, sash, steel sash, metal lath, plaster, tile work, alberne stone, metal weather strip, slate roof.

Honor Cottages (4), State Reformatory for Boys, Jamesburg, N. J. Contract awarded A. Christensen, Carteret, N. J., \$175,000. Plumbing to Adams & Mulready, New Brunswick, N. J., \$16,068. Heating to Nelson Piping & Equipment Co., 706 Delancey street, Philadelphia, \$16,345. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, brick, steel, 2 stories and basement, 100x24 feet. wing 78x22 feet. cement floors, floor hardener, ornamental iron, excavation, integral and membrane waterproofing, damp-proofing, concrete block, limestone, bluestone, iron work, metal lath, metal window guards, iron stairs, slag and slate roof, caulking, maple floors, plaster, tile, alberne stone, metal weather strip, screens.

Store House. State Village for Epileptics, Skillman, N. J. Contract awarded Delaware Form Co., 1001 Chestnut street, Philadelphia, \$48,985. Plumbing, W. C. Kashner, Roehling, N. J., \$2,495. Heating, W. C. Kashner, Roehling, N. J., \$2,680. Electric, Hockenbury Electric Co., Somerville, N. J., \$2,437. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, reinforced concrete, limestone, 2 stories and basement. 96x50 feet, slate roof, cement floors, metal lath, tile, marble, steel sash.

Central Senior High School, Trenton, N. J. Contract awarded Karno-Smith Construction Co., Broad Street Bank Building, Trenton, N. J., \$1,712,720. Plumbing, Philip S. Slack, 211 Perry street, Trenton, N. J., \$142,000. Heating, Murland Engineering Co., 233 West Forty-second street, New York, \$344,800. Electric, Walter Kidde Co., 140 Cedar street, New York, \$139,500. Architects, Ernest Sibley and L. C. Light, Palisade, N. J. Owners, Board of Education, J. S. Messler, president; R. C. Bellville, secretary, 9 South Stockton street, Trenton, N. J. Stone, steel, 3 stories, 318x214 feet, slate built-up roof, cement, maple, oak, pine, linoleum floors, roof ventilators, skylights, safety treads, metal window guards, waterproofing and dampproofing, ornamental iron, acoustical plaster, ornamental plaster, vault floors, kalamein doors, steel

sash, tile, marble, terrazzo, metal lath, brass grilles, wrought iron rails and grilles, caulking, blackboards.

Dickinson Hall, Princeton, N. J. Contract awarded Mathews Construction Co., Princeton, N. J. Architect, Charles Klauder, 1429 Walnut street, Philadelphia. Owners, Princeton University, Princeton, N. J. Stone, brick, reinforced concrete, steel, 3 stories and basement, 120x50 feet, caen tile work, hollow tile, Indiana limestone, bluestone, granite, carpentry, mill work, maple floors, slate roof, casement sash, terrazzo work, marble work, iron stairs, area gratings (plumbing, heating, electric separate).

Store and Offices (alts. and add.), Southeast Corner Kaighn and Mt. Ephraim avenues, Camden, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Estate of Mary Sand, care of Paul J. Sand, Haddon Heights, N. J. Excavation, concrete, cement, brick work, cut stone, art stone, marble work, iron work, carpentry and mill work, pine floors, plastering, linoleum, tile work, metal ceilings, skylights, slag roof, plumbing, painting, glazing, hardware, electric work, area gratings (heating separate contract). Contract awarded Harry Van Sant, Collingswood, N. J.

Office Building, \$8,250. 333 Arch street, Camden, N. J. Contract awarded Essaness Corporation, Southwest Corner Fourth and Arch streets, Camden, N. J. Architect, Herbert N. Moffett, 104 Market street, Camden, N. J. Owners, Inter-County Mortgage & Finance Corporation, Fourth and Arch streets, Camden, N. J. Brick and block, 2 stories and basement, 20x68 feet 10 inches, slag roof, oil burner.

Residence, \$2,800. 1177 Beidemann avenue, Camden, N. J. Contract awarded John Hawes, 1201 North Thirty-third street, Camden, N. J. Architect, private plans. Owner, David Harigan, care of contractor. Frame, 2 stories, 16x28 feet, slate surface roof, warm air heat, electric light.

Miscellaneous Construction News

Mercerizing Bldg., location withheld, North Carolina. Plans in progress, ready for bids in two weeks. Architect, C. H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, name withheld. Brick, steel, reinforced concrete, 1 and 2 stories, 150x350 feet, composition roof, cement and wood floors, steal heat, electric light, tile work, office partition, platform scales.

Residence (alts.) and Garage, Hollyoak, Del. Preliminary plans in progress. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, name withheld. Brick, stucco, 2 stories, 24x40 feet, slate roof, concrete and pine floors, electric light.

Residence, Wawasett Park, Wilmington, Del. Architect will be ready for bids next week. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, W. C. Pryer, 811 North Harrison street, Wilmington, Del. Brick, 2½ stories, 28x33 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Engine Terminal Improvements, Henton, W. Va. Owners taking bids due June 18th. Architects, Chief Engineer's Office, Richmond, Va. Owners, Chesapeake & Ohio Railway Co., Richmond, Va. Brick, steel, reinforced concrete, steam heat, rolled steel sash, fire and kalamein doors, built-up roof, concrete floors, plumbing, rolled steel doors, linoleum floors, roundhouse extension, 17 stalls, 35x75 feet each, engine supply house, 1 story, 70x20 feet,

foreman's office, 1 story, 25x19 feet, storage building, 1 story, 60x20 feet, inspection pits, 15x9 feet, engine washing platform, pump house.

Residence (alts. and add.), Weldin avenue, Wilmington, Del. Architects taking bids due June 17th. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, F. C. Ziesberg, care of architects. Frame, stucco, 2½ stories, irregular size, shingle roof, hardwood floors, tile work.

Office (alts.), Second street, Wilmington, Del. Architect taking bids due June 14th. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, B. F. Shaw Co., Second and Lombard streets, Wilmington, Del. General interior and exterior alterations.

Engineering Building (add.), Newark, Del. Owners taking bids due June 18th. Architect, Charles Z. Klauder, 1420 Walnut street, Philadelphia. Owners, University of Delaware, Dr. Hullihon, on premises.

School, Wilmington, Del. Low bidder, H. John Homan, Eighteenth and Cherry streets, Philadelphia. Architects, Guilbert & Betelle, Chamber of Commerce, Newark, N. J. Owners, Delaware School Auxiliary for St. Elizabeth's Roman Catholic Church (Rev. W. Temple), DuPont Building, Wilmington, Del. Brick, steel, 2 stories and basement, 226x78 feet, wing 75x45 feet, slag roof.

Miscellaneous Contracts Awarded

Residence, Wilmington, Del. Contract awarded William F. Hadley, Claymont, Del. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, P. C. Sisler, Equitable Building, Wilmington, Del. Stone, 2½ stories, 28x38 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Armory (add. and alts.), Laurel, Del. Contract awarded W. E. Booth & Son, Salisbury, Md. Architect, E. C. May, DuPont Building, Wilmington, Del. Owners, State Armory Commission, Wilmington, Del. Brick, steel, 1 story, 30x45 feet, composition roof, cinder and pine floors, electric light, kitchen equipment.

SKILL IN CONCRETE PROPORTIONING

Use of Water Ratio Methods Enable Responsible Contractors to Place Better Concrete at Lower Costs

Progress in the manufacture of concrete has been so rapid that the contractor who is informed and equipped to take advantage of recent developments is in an enviable position. Instead of working a hardship as was anticipated by some, the new methods are resulting in actual savings in cost of both material and labor.

These methods which have come about through the establishment of water-cement ratio proportioning of concrete, are steadily increasing in popularity and bid fair to become standard practice within a few years.

Strength Depends Upon Amount of Water Used

The principle of water-cement ratio proportioning is simple and easy to under-

stand. A sack of cement mixed with any definite quantity of water forms a paste. When this paste is mixed with fine and coarse aggregates in such proportions as to produce a plastic concrete mixture a definite quality will result.

The strength of the paste, and therefore the strength of the concrete, depends primarily upon the quantity of water used. The more water the less strength.

Since a sack of cement contains a fixed amount of solid volume, the volume of paste obtainable by mixing one sack with a definite quantity of water is also fixed. The secret of water-cement ratio proportioning lies in the most efficient use of this quantity of paste.

With the quality of the paste established the mix can be as wet or as dry as the conditions of placing require, so long as it can be placed without segregation or honeycombing, yet the strength of the concrete will be unchanged. Of course the wetter the mix the less economical it will be, since the drier mix permits the use of a larger volume of aggregate per sack of cement. But the old bugaboo of the necessity for excessively dry mixtures is eliminated.

Produces Larger Yield at Lower Placing Cost

The water-cement ratio method thus places a direct premium on a thorough knowledge of proportioning through the resultant saving in cement (greater yield of concrete per sack) and through improved workability (greater ease and therefore lower cost of placing).

The irresponsible or "Jerry" contractor will soon find himself out of the running through his inability to take advantage of this method. Only the responsible contractor, who, by his knowledge of water-cement ratio proportioning and his ability to control job conditions can guarantee a uniform concrete of definite quality will be able to share in the savings effected by water-cement ratio control.

In the past it has been customary to specify definite proportions of cement to fine and coarse aggregate when it was desired to produce concrete of a certain minimum strength. Usually no consideration was given to the characteristics of the available aggregates nor to the difficulties which might be encountered in placing.

Naturally, it was necessary to aim at a strength appreciably higher than that required in order that variations in job conditions should not result in a part of the structure being of inferior quality. This represents a margin of safety in part of the work which, with our present knowledge of proportioning, is nothing less than extravagant.

In spite of this margin, the absence of definite means of control has often re-

sulted in work which was not up to the standard assumed in designing the structure.

An unwarranted hardship has been imposed upon some contractors in the past through misunderstanding and improper application of the water-cement ratio principle by a few engineers and architects.

Engineers with Scant Knowledge Boost Costs

Through a scant knowledge of this principle and lack of knowledge of proportioning, these men have specified fixed proportions and then have insisted on reduction of the water-cement ratio through the use of excessively dry mixtures. This usually resulted in increased labor costs and often produced honeycombed, porous concrete.

With the water-cement ratio fixed, the matter of proportioning is left largely to the contractor. The advantage of being able to adjust the per cent. of sand in the mix will be apparent to those who have experienced difficulty in placing the undersanded mixtures commonly specified. A further saving to the contractor results from the elimination of practically all patching.

Properly designed concrete mixtures can be easily placed with a minimum of segregation and "stone-pockets." Once the desirable proportions for workability have been determined by trial, the procedure differs but little from that previously followed except that all materials including water are more accurately measured.

Where fixed proportions have been specified it has been common practice in the past to place certain restrictions on aggregate types and gradings. These restrictions often excluded local materials and necessitated purchasing more expensive aggregates from outside sources.

The freedom in proportioning afforded by the new method often makes possible the use of good local materials, formerly rejected because of deficiencies in grading. It may be that local aggregate will produce a slightly smaller yield of concrete of the same strength, but this is usually more than offset by the saving in haulage costs.

The owner, too, profits by the use of the new methods. He is thus assured that the concrete will be of acceptable and uniform quality. External appearance will be much improved by the absence of honeycomb and patching.

Where water-tightness is essential it can be definitely obtained by controlling the water-cement ratio and the workability of the mixture. In brief, the guesswork which characterized the indiscriminate use of the 1-2-4 mix is eliminated.

Many of the ideas embodied in the new

method of controlling concrete quality are already well known to the experienced contractor. With this background he will readily grasp the possibilities of the water-cement ratio specification. While he should become familiar with the method and the principles involved, generally he cannot afford to devote his own time to the details of proportioning.

Usually the contractor will turn over this responsibility to a subordinate who has been specially trained for the purpose. The volume of concrete handled will determine whether or not it is feasible for the individual contractor to employ a full-time man for concrete control.

In some cases two or more contractors can arrange to co-operate in employing a young engineer who has had in addition to actual construction experience a thorough training in the practical details of concrete proportioning.

Contractors' associations might render a valuable service by employing a full-time man to design concrete mixtures and supervise control of concrete quality for those members who desire this assistance. During the past few years this training in the application of the water-ratio method has been taught to a large number of engineers and concrete workers. The theory of the subject should not be limited to those computing specifications, but should be in the hands of the man on the job. There is at present a large number of men who are competent to handle this work. Adoption of the new methods is taking place so rapidly, however, that this number is inadequate to meet the demand of the construction industry.

Free Education for Your Superintendents

In order to assist organizations who wish to employ full-time engineers for this purpose, the Portland Cement Association is prepared to give a course of intensive training to groups of three or four such men who can be assembled at the Association's laboratory in Chicago. At least three days will be granted in the order in which they are received.

As soon as a sufficient number of requests have been received these organizations will be advised to send their representatives to Chicago. In order to take care of those organizations which are located at some distance from Chicago, the instructor may be sent to some centrally located city where a larger group of representatives can be assembled. These men should be carefully selected in order that they will be able not only to supervise quality control but also to pass the information along to foremen, mixer men and others of the contractors' organizations who are in charge of concreting operations.—*The Associated Contractor.*

At a recent meeting of the Cleveland Chapter of the American Institute of Architects, Dalton J. V. Snyder, A. I. A., of Detroit, one of the directors of the Institute, spoke on the subject of the architect's duty to his community. The point of Mr. Snyder's remark was that while the architects as a class have been unselfish and, in fact, even prodigal of their time and money, where the direct affairs of their profession are concerned, they have been extremely backward in promulgating a proper understanding and appreciation of architecture on the part of the public.

Snyder believes that the architects of the country have for years been telling each other what a great profession architecture is, how fine it is to appreciate good architecture and how much architecture enriches life, but have neglected the task of enlightening the public as to what is and what is not good architecture. Without doubt the entire profession realizes the truth of Snyder's statement. We are all familiar with the loyal and unselfish efforts which the architects of this country have for years been making along the line of training architectural students. We are all familiar with the fine illustrations of beautiful architecture which fill our professional magazines (which practically no one sees but the architects themselves) and we are all familiar with the many fine articles which are written on the appreciation of architecture, both in the general and in the specific, in these same professional magazines, which no one but the architects have a chance to read because the circulation of a professional magazine is practically limited to members of the profession.

If architecture truly enriches life and every architect worthy of the name sincerely believes that it does, then it is the duty of the architectural profession to be constantly active to the end that our national life as a whole be enriched because of a widespread popular appreciation and enjoyment of architecture.

The public is the consumer of this commodity called architecture. It is the lay public which constitute the owners and builders of our structures, whether the small house or the towering office building, the factory or the play house, the Governmental building or our places of worship. The architect is but the servant of this public and as long as the public or any part of it cannot distinguish between architecture and ugliness and, as in many cases, through ignorance actually believes an ugly thing to be beautiful, then architecture cannot truly flourish. But when the public become thoroughly sensitive to beauty and when the ability to discriminate becomes general then there will be no market for the crude, ugly product of the unqualified designer and good

architecture will come into its own.

To whom then should the public look for instruction and guidance in its effort to acquire an appreciation of architecture if not to the architects themselves?—*Builder's Weekly.*

STANDING COMMITTEE RECOMMENDS ADDITION FOR SIMPLIFIED PRACTICE RECOMMENDATION ON PAVING BRICK

Because of the increased demand for an eliminated size paving brick, the Permanent Committee for Simplified Practice Recommendation No. 1, Vitri-fied Paving Brick, has recommended to the industry that the wire cut lug brick (Dunn) 3 x 3½ x 8½ be reinstated as a standard type, according to the Division of Simplified Practice of the Bureau of Standards, U. S. Department of Commerce.

This size brick was eliminated from the recognized standard sizes on March 20, 1925, but the shipments for this size during the past three years has gradually increased until today it represents 14.5 per cent of the total based upon the survey of the industry in 1928. By the inclusion of the size into the simplification program, the Division of Simplified Practice stated that the degree of adherence to this recommendation is increased from 70.1 per cent to 84.6 per cent. There are now 6 standard, or recognized sizes of vitrified paving bricks.

In making this announcement the Division of Simplified Practice pointed out that the paving brick simplification was one of the initial projects developed by industry under the cooperation of the Department of Commerce. Much of the success attained by the program has been due to the support it has received from the Standing Committee and the National Paving Brick Manufacturers' Association.

The Division of Simplified Practice is the only organization engaged in waste elimination, through simplification and standardization, that subjects the effected programs to stipulated review, in order that they may be revised or modified in order to keep them abreast of current developments in the industry.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

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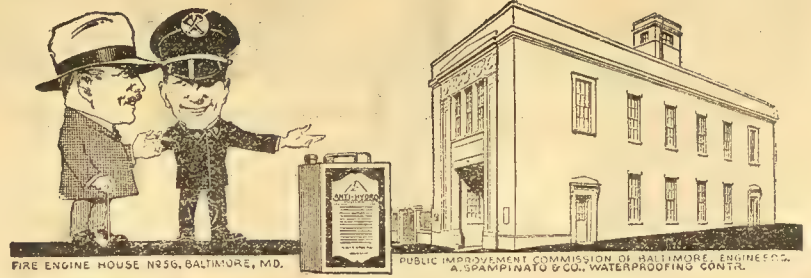
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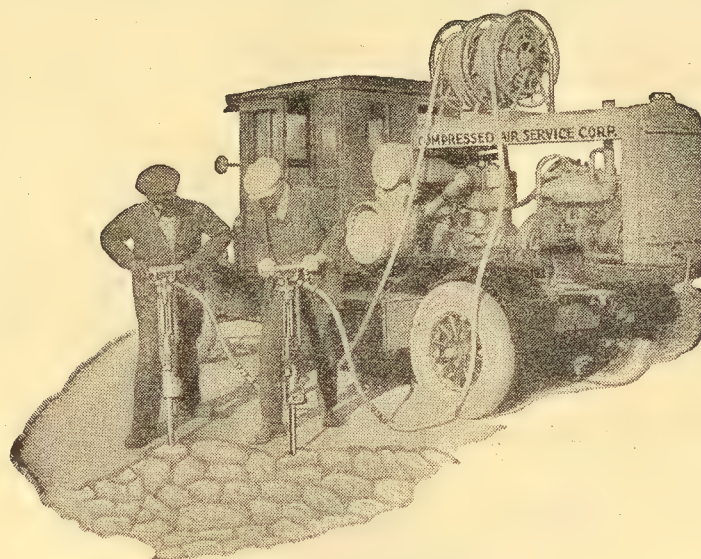
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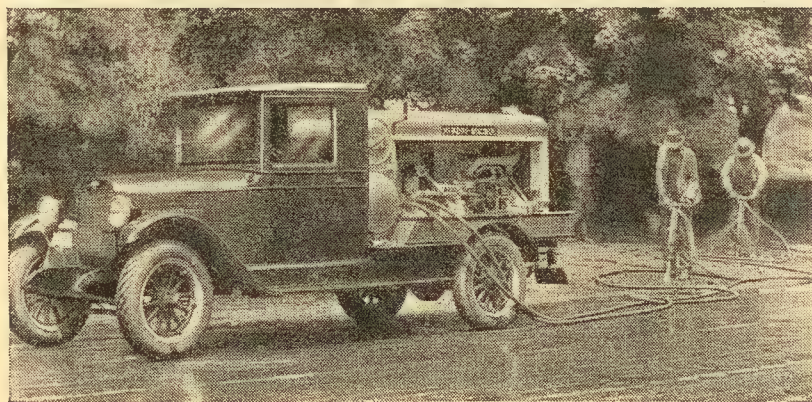
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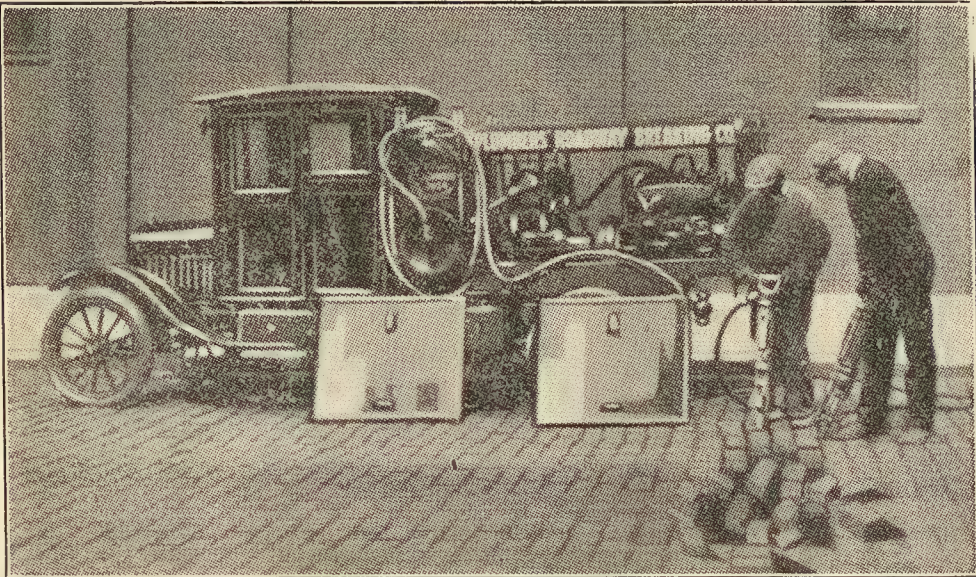
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
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June 19, 1929

BUILDERS' GUIDE

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, Southwest Corner Forty-third and Spruce streets, Philadelphia. Work contemplated. Owner-builder, Frank I. Koplin, care of Martin Isen, Real Estate Trust Building, Philadelphia. Brick, 4 stories.

Store Building, Northwest Corner Fifty-second and Chestnut streets, Philadelphia. Work contemplated. Owners, Monarch Realty Co., care of Lionel Friedman, Fifteenth and Locust streets, Philadelphia. Size of lot, 48x57 feet, 55x68 feet, irregular. Lessees, McCrory Store, Inc., 1107 Broadway, New York City.

Factory Building, Jackson and Swanson streets, Philadelphia. Work contemplated. Owners, Harshaw Chemical Co., care of J. H. Herford, on premises. Brick, steel, concrete.

Store and Restaurant Building (add.), 3634 North Broad street, Philadelphia. Work contemplated. Owners, Horn & Hardart Baking Co., 206 South Warnock street, Philadelphia. Size of lot, 15x104 feet.

Restaurant Building, 1429 Arch street, Philadelphia. Work contemplated. Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia. Owners, Horn & Hardart, 204 South Warnock street, Philadelphia. Size of lot, 21x97 feet.

Apartment House, 246 West Upsal street, Germantown, Philadelphia. Plans about completed. Owner, S. Feinstein, Almonessen, N. J. Brick, steel, concrete, 112 apartments, U shape.

Stores and Apartments (16), West side Ogontz, between Seventy-sixth and Seventy-seventh street, Philadelphia. Preliminary plans in progress. Architect, Edgar A. Wight-

man, Bankers' Trust Building, Philadelphia. Owner, Oscar M. Steppacker, Broad and Girard avenue, Philadelphia. Brick, 2 stories.

Gas Station and Lubricating Pit (2), Germantown and Tulpehocken street, Philadelphia; Ridge and Leverington streets, Philadelphia. Plans in progress. Owners will soon take bids. Architect, private plans. Owners, Felt Brothers, 1518 Walnut street, Philadelphia. Lessees, Star Lubricating Co., care of owner. Brick, steel, 13x50 feet, 18x50 feet.

Park, 241-43-45-47 Arch street, Philadelphia. Work contemplated. Owners, Betsy Ross Memorial Association, 239 Arch street, Philadelphia. Buildings to be demolished, filling, sodding, etc.

Sales and Service Station, South side Hunting Park, East of Germantown avenue, Philadelphia. Plans in progress. Owners will take bids in one week. Architect, Engineer of General Motors Co., Detroit, Mich. Owners, United Motor Service, Inc., 342 North Broad street, Philadelphia. Brick, steel, 1 story, 58,000 square feet, slag roof, cement floors, plate glass, electric light.

Mezzanine (alts. and add.), Warwick Hotel, Philadelphia. Architect taking bids due June 20th. Architect, S. Bryan Baylinson, 1500 Chestnut street, Philadelphia. Owners, Whitehead Bridge Club, care of architect. Demolition, reinforced concrete, brick work, plastering, fireproofing, cement work, carpentry and mill work, marble and tile work, oak floors, painting, glazing, hardware (pantry equipment, cold room equipment, metal lockers, awnings, shades, screens, interior deco-

rating, linoleum, cork tile floors, carpets, lighting fixtures reserved).

Gas Service Station, Northwest Corner Thirty-fourth and Hamilton streets, Philadelphia. Owners taking bids. Architect, private plans. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Hollow tile and stucco, 1 story, 15x18 feet.

Laboratory of Hygiene (repairs), Bureau of Health, Second and Luzerne streets, Philadelphia. Owners taking bids due June 21st at noon (Daylight Saving Time). Owners, Department of Public Health, Director's Office, 503 City Hall Annex, Philadelphia. Repairs to building, painting, repiping, etc.

Church, Twenty-first and Godfrey avenue, Philadelphia. Owners taking bids due June 21st. Architect, Albert N. Dobbins, 1718 Cherry street, Philadelphia. Owners, Corinthian Baptist Church, W. H. Hopkins, 6150 North Norwood street, Philadelphia. Stone, 1½ stories and basement, 43x65 feet, slate roof, maple floors, plumbing, steam heat, electric light, metal lath, tile work, bond, ornamental iron work, metal ceilings.

Heating in Schools (2), Wright and Umbria streets, Forty-fourth and Diston streets, Philadelphia. Owners taking bids due July 2nd, 11 A. M. (Eastern Standard Time). Architect, I. T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Also bids due July 2nd on oil, screens, tables, etc.

Sales and Service Building, 4846-48 Chestnut street, Philadelphia. Architect taking bids

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due June 22nd. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Block Weiss Co., care of architect.

Patrol House, Twenty-eighth street, near Oxford street, Philadelphia. Low bidders: E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, Item A, \$5,170; Item B, \$750; Man Camp Construction Co., 1033 Chestnut street, Philadelphia, Item A, \$5,226; Item B, \$701. Heating, Joseph Rappold, 1917 North Palethorpe street, Philadelphia, \$250. Plumbing and drainage, Fred Wackenhut, 2416 Frankford avenue, \$875. Electric, H. S. Mitchell, 1337 McFerron street, Philadelphia, \$175; W. W. Rappold, 1917 North Palethorpe street, \$175. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia.

Residences (18), \$72,000, 2050-84 Simon street, Philadelphia. **Residences (8)**, \$39,000, 5444-58 Torresdale avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, (18) 16x32 feet, 13x12 feet, (8) 16x28 feet, 12x8 feet, slag roof, hardwood and pine floors, hot water heat, electric work.

Garage, \$8,000. West side Verbena street, South of Sixty-ninth avenue, Philadelphia. Permit issued. Architect, private plans. Owner, D. D. Grossman, 816 Sixty-ninth avenue, Philadelphia. Brick, 1 story, 80x116 feet, slag roof, cement floors, electric work.

Residence (alts. and add.), Northeast Corner Fitler and Milnor streets, Philadelphia. Permit issued. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, Paul J. Henon, Jr., 1825 Delancey Place, Philadelphia. General alterations and addition.

Shop (add.), 55 West Penn street, Philadelphia, \$4,000. Permit issued. Architect, Frank Green, Real Estate Trust Building, Philadelphia. Owners, Frunzi Brothers, on premises. Stone and steel, 1 story add., 20x22 feet, 26x30 feet.

Filter Building, \$3,000. North side Penrose Ferry road, East of Schuylkill avenue, Philadelphia. Permit issued. Owners, Gulf Refining Co., Girard Point, Philadelphia. Brick, 1 story, 27x19 feet, 16x19 feet.

Residences (6), \$30,000. South side Hartel street, East of Frontenac street, Philadelphia. Permit issued. Owners, Castor Highland Development Co., Castor and Hartel streets, Philadelphia. Brick, 2 stories, 16x25 feet, 18x24 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Loading Shed, \$20,000. Front and Olney avenue, Philadelphia. Permit issued. Owners, Heintz Manufacturing Co., on premises. Iron on iron, 1 story, 50x290 feet.

Ice Cream Stand, \$3,000. East side Boulevard, North of Tyson street, Philadelphia. Permit issued. Owners, Abbott's Dairies, 238 Lombard street, Philadelphia. Iron on iron, 1 story, 14x16 feet.

Stores (2), \$16,000. 3537-39 Vaux street, Philadelphia. Permit issued. Architect, private plans. Owner, M. J. McCrudden, Thirty-fourth and Midvale avenue, Philadelphia. Brick, 1 story, 22x60 feet, electric work, slag roof.

Foundry (add.), \$12,000. Northeast Corner Milnor and Bleigh streets, Philadelphia. Permit issued. Architect, H. B. Tobias, Otis Building, Philadelphia. Owners, Girard Refining and Smelting Co., Richmond and Tioga streets, Philadelphia. Steel, 1 story addition, 94x112 feet.

Garage (alts.), \$3,500. Southwest Corner Front and Clearfield streets, Philadelphia. Permit issued. Architect, private plans. Owner, Edmund Drake, on premises. General alterations.

Ridge Avenue Tube, \$8,000,000. Broad and Fairmount to Eighth and Race streets, Philadelphia. Plans about completed. Owners will soon take bids. Owners, Department of City Transit, City Hall Annex, Philadelphia.

Residences (25), \$88,500. Fourth and Cheltenham avenue. Permit issued. Architect, private plans. Owner, Louis Braeunig, Jr., 5126 North Fifth street, Philadelphia. Brick, 2 stories, 15x43 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (6), \$25,000. South side Seventy-sixth avenue, East of Fayette street, Philadelphia. Permit issued. Architect, private plans. Owners, Cyro Construction Co., 228 South Sixtieth street, Philadelphia. Brick, 2 stories, 16x38 feet, 13x18 feet, slag roof, pine floors, hot water heat, electric light.

School (alts.), \$7,500. North side Coulter street, West of Germantown avenue, Philadelphia. Permit issued. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Germantown Friends' School, on premises. General alterations.

Apartment (add.), 332 West Hortter street, Philadelphia. Owner taking sub-bids. Architect, Charles Schaef, 11 South 16th street, Philadelphia. Owner, Pelham Corporation, care Architect. Brick, 4 stories, 16 apartments, heating, lighting and plumbing extensions, slag roof, hardwood floors.

Residence and Garage, Chestnut Hill, Pa. Plans about completed, ready for bids in a few days. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Stone, 2½ stories. Owner, Dr. Geo. Woodward, North American Building, Philadelphia.

Tunnel, Penrose avenue, beneath Schuylkill River, Philadelphia. Plans in progress. Architect, Bureau of Engineering & Surveys,

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Temple of Youth, Parkway at 22nd and Winter streets, Philadelphia. Architect taking bids due no set date. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owner, Philadelphia Council of Boy Scouts of America, care Dr. C. D. Hart, 1924 Chestnut street, Philadelphia. Brick, concrete, limestone, steel, tile roof, cement floors, tile work, metal lath, plastering, rolled steel skylights, roof ventilators, 2 stories and basement, 60x85 feet.

Gasoline Station, Paul and Kinsey streets,

Philadelphia. Owner taking bids due June 20th. Architect, private plans. Owner, Standard Oil Company, Public Ledger Building, Philadelphia. Hollow tile, stucco, 15x18 ft., tile roof, cement floors.

Miscellaneous Paving, Philadelphia. Owner taking bids due June 25th, 11 A. M., Standard Time, at 216 City Hall. Owner, Department of Public Works, Bureau of Highways, 1002 City Hall Annex, Philadelphia. Inquire 1004 City Hall Annex. Grading, asphalt paving, asphalt regrading, asphalt resurfacing by heater method, redress granite block repaving, repair certain intersections, laying asphalt paving on Walnut street Bridge. Certified check 5 per cent.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Schools (2), Philadelphia. Contracts awarded. Architect, I. T. Catherine, Nineteenth street above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth street above Chestnut, Philadelphia. Brick, concrete, steel, 3 stories and basement, 136x114 feet, 176x130 feet, composition and concrete roof, maple and cement floors, hollow tile, metal weather strip, waterproofing and dampproofing, metal lath, marble, steel skylights, bond, floor hardener, iron stairs, ornamental iron. **Forty-fourth and Aspen Streets School**—Ralph Herzog, 10 South Eighteenth street, Philadelphia, \$339,339; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$15,666; electric, Industrial Electric Co., 124 North Sixty-third street, \$7,389; ventilating, George H. Priggen, 610 North Fourth street, Philadelphia, \$1,869. **Wright and Umbria Streets School**—Ralph Herzog, 10 South Eighteenth street, Philadelphia, \$385,283; plumbing, Fred Wackenhut, 2416 Frankford avenue, \$17,000; ventilating, George H. Priggen, 610 North Fourth street, \$1,332; electric, Industrial Electric Co., 124 North Sixty-fourth street, \$15,784.

Orphans' Court (alts.), City Hall, Philadelphia. Contracts awarded. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, City of Philadelphia, Orphans' Court, 1022 City Hall, Philadelphia. Brick work, hollow cinder block, concrete and cement work, iron work, metal lath, plastering, marble work, tile work, rubber tile floors, carpentry and mill work, painting, glazing, Arvon wall finish (plumbing, heating, electric separate).

General, Mitchell Brothers, 2125 Race street, Philadelphia, \$28,820. Plumbing, N. Connolly, 1404 North Eighteenth street, Philadelphia, \$1,293. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$3,879.

School and Chapel, Sixty-fifth and Chester avenue, Philadelphia. Contract awarded McCloskey Co., 1620 West Thompson street, Philadelphia. Electric, E. Strang, 214 South Seventh street, Philadelphia. Heating, T. J. Curry, Kirklyn, Pa. Plumbing, Boon & Sample, 3003 Ludlow street, Philadelphia. Architect, George I. Lovatt, 220 South Sixteenth street, Philadelphia. Owners, Roman Catholic Church of Good Shepherd, Rev. J. A. McMahon, on premises. Stone, cast stone, steel, 3 stories and basement, 166x56 feet, flagstone, brick work, concrete floors, reinforced concrete, iron work, metal lath, plastering, slag roof, terrazzo and marble work, waterproofing, area gratings, window guards, metal casement windows, slag and slate roof.

Operating Pavilion, \$175,000. Broad and Ritner streets, Philadelphia. Contract awarded Cramp & Co., Denekla Building, Phila. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Methodist Hospital, Broad and Ritner streets, Philadelphia. Brick, steel, additional story (6th), 125x105 feet, gypsum slag roof, cement floors, steam heat, electric light, metal lath, tile, marble and terrazzo work, ornamental iron work.

Laboratory and Laundry (add.), 1610 South Twenty-sixth street, Philadelphia. Contract awarded H. A. Hopple, Heed Building, Phila-

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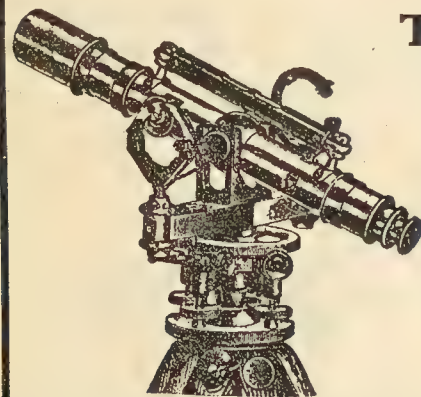
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delphia. Architect, Charles Schaeff, 11 South Sixteenth street, Philadelphia. Owners, St.

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Upsal Park Manor, 246 West Upsal street, Germantown, Philadelphia. Contract awarded United Contracting Company of America, 246 West Tulpehocken street, Philadelphia. Architect, private plans. Owners, Samuel Elgard and David Sorkin, 246 West Tulpehocken street, Philadelphia. Brick, steel, cast stone, 4 stories and basement, 341x400 feet, 112 apartments, slag roof, electric ranges, 7 electric elevators, 9-hole indoor golf course, laundry and swimming pool in basement, 7 incinerators, vapor heat, tile, marble, terrazzo work, metal skylights, kalamein doors, iron work, soundproofing.

School, Sixth and Erie avenue, Philadelphia. Contract awarded W. R. Dougherty, 1608 Sansom street, Philadelphia. Architect, C. J. Cumiskey, 86 West Sharpnack street, Philadelphia. Owners, Our Lady of Pompeii, Rev. Joseph Lazza, 632 West Erie avenue, Philadelphia. Brick, stone, steel, 3 stories and basement, 56x100 feet, slag roof, maple and cement floors, plumbing (heating reserved), electric light, metal lath, tile work, bond, ornamental iron work.

Store Building, Torresdale and O street, Philadelphia. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1424 South Penn Square, Phila. Brick, steel, 1 story, 60x64 ft., slag roof, pine and cement floors, metal lath, tile work.

Residence and New Garage (alts. and add.), 30 Summit avenue, Chestnut Hill, Pa. Contract awarded John Morrow, 8624 Germantown avenue, Philadelphia. Architect, John J. Graham, Jr., 10 South Eighteenth street, Philadelphia. Owner, Philip Price, on premises. Stone, 1½ stories and basement, 16x30 feet, shingle roof, cement floors. Plumbing and heating awarded to United Plumbing & Heating Co., 6309 West Girard avenue, Philadelphia.

Buildings (5), Girard Point, Philadelphia. Contract awarded John N. Gill Cons. Co., 1500 Chestnut street, Philadelphia. Architect, Edward B. Lee, Chamber of Commerce Building, Pittsburgh, Pa. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Brick, reinforced concrete, steel, 1 story, 60x95 feet, 40x100 feet, slag roof, cement floors.

Residence (alts. and add.), Sharpless road, Oak Lane, Philadelphia. Contract awarded

William Johnston, 1606 Swain street, Philadelphia. Architect, W. Lesh Blithe, Public Ledger Building, Philadelphia. Owner, Dr. Henry M. Gaskill, 1822 Spruce street, Philadelphia. Stone, 1½ stories, 10x12 feet, 8x12 feet, slate roof, oak and pine floors, metal weather strip, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, demolition.

Manufacturing Building, Sepviva and Butler streets, Philadelphia. Contract awarded George Kessler Contracting Co., 1733 North Marvine street. Architect, private plans. Owners, Belmont Packing & Rubber Co., Mr. C. Restein, 1133 Arch street, Philadelphia. Brick, steel, 1 and 2 stories, slag roof, yellow pine floors, rolled steel sash, ornamental iron work.

Residence, Bustleton avenue and McKinley street, Philadelphia. Contract awarded Jacob Gaertner, 8315 Pine road, Philadelphia. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, Andrew Peoples, Jr., Bustleton and Robbins avenues, Philadelphia. Stone, 2½ stories and basement, 30x50 feet, slate roof, oak and yellow pine floors, ornamental iron, metal lath, tile work, electric work, hot water heat.

Garage, 1721-23-25-27 North Thirty-third street, Philadelphia. Contract awarded Stanley Construction Co., Real Estate Trust Building, Philadelphia, who are taking sub-bids. Architect, I. W. Levin, 1001 Chestnut street, Philadelphia. Owner, Louis Levin, Real Estate Trust Building, Philadelphia. Lessees, Eaton Bumper & Spring Service Co., 2237 North Twenty-second street, Philadelphia. Brick, 1 story, 72x170 feet, steel, concrete, slag roof, concrete floors.

Store and Office Building, 9 South Sixteenth street, Philadelphia. Contract awarded Nelson Pedley Construction Co., 1510 Chestnut street. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owner, John Ellis, Ellis Import Co., 135 South Eleventh street, Philadelphia. Brick, granite, architectural terra cotta, steel, 2 stories and basement, 96x18 feet, painting, glazing, elevators, oil burning equipment, steam heat, sprinkler, plumbing, linoleum vitrolite floors, tin-clad doors, rolling steel doors, steel sash, carpentry and mill work, pneumatic tube system, metal lath, terrazzo floors, limestone, Barrett specification roof.

Sub-Station, \$55,000. Southwest Corner Thirty-eighth and Cuthbert streets, Philadelphia. Contract awarded United Engineers & Constructors, 112 North Broad street, Philadelphia. Permit issued. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., 1000

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Chestnut street, Philadelphia. Steel, brick, concrete, 1 story, 62x125 feet.

Garage, \$5,500. 1015-17 North Sixty-third street, Philadelphia. Contract awarded Haverstick & Borthwick, 1505 Race street, Philadelphia. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owner, T. E. Knapp, on premises. Brick, 1 story, 23x24 feet, slag roof, cement floors, electric work.

Manufacturing Building, \$3,500. 4315-17 North Lawrence street, Philadelphia. Contract awarded William M. Benner, Hatboro, Pa. Owner, Charles Schramm, 4326 North Fourth street, Philadelphia. Brick, 1 story, 30x105 feet.

Store and Office (alts.), \$3,500. Northwest Corner Fifty-second and Baltimore avenue, Philadelphia. Contract awarded Daniel Josephson, 5405 Walnut street, Philadelphia. Owners, Frank Baker & Son, on premises. General alterations.

Railroad Trestle, \$5,000. Northeast Corner Twenty-fifth and Dickinson streets, Philadelphia. Contract awarded F. X. Brennan, 2507 Tasker street, Philadelphia. Owner, Michael Mahedy, on premises.

Light Manufacturing Building, \$10,000. West side Twenty-first street, South of Godfrey avenue, Philadelphia. Contract awarded Allan Construction Co., 1640 Hunting Park avenue, Philadelphia. Architect, private plans. Owner, H. Levy, 1421 North Twenty-first street, Philadelphia. Brick, 1 story, 27x20 feet, 37x65 feet.

Apartment House (alts.), \$5,000. Northwest Corner Ogontz avenue and Kemble street, Philadelphia. Contract awarded Buckley & Banks, 1317 South Juniper street, Philadelphia. Architect, private plans. Owner, William Gigger, 2551 Kensington avenue, Philadelphia. General alterations.

Miscellaneous Paving, Philadelphia. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Forty-first, Walnut to Lancaster avenue, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$51,204.70. Walnut street, Sixty-first to Sixty-third street, Eastern Paving Co., Pennsylvania Building, Philadelphia, \$19,872.53.

Grading and Paving, Philadelphia. Contracts awarded. Owners, City of Philadelphia, Bureau of Highways, Department of Public Works, City Hall, Philadelphia.

Schedule A—Grading. Tabor road, from Adams to Garland street, Marino Masso, 3936 North Reese street, Philadelphia, \$3,254.25.

Schedule B—Asphalt Paving (Assessment Work). Charles street, from Robbins to Dev-

ereaux, and Tackawanna street, from Robbins to Devereaux, Mack Paving Co., Nicetown lane and C street, Philadelphia, \$12,730.77. James street, from Kennedy to Fralley, Mack Paving Co., Nicetown lane and C street, Philadelphia, \$5,978.09. Unruh street, from 260 feet West of Brous to Roosevelt Boulevard, Montgomery Paving Co., Harrison Building, Philadelphia, \$9,275.70.

Schedule D—Country Road Improving. Cheltenham avenue, from Vernon road to Cresheim road, Acchione Contracting Co., 1607 McKean street, Philadelphia, \$32,165.50.

Schedule E—Asphalt Repaving. Huntingdon street, from Twenty-second to Twenty-third, and Twenty-third street, from Huntingdon to Lehigh, Municipal Paving Co., Second and Wingohocking streets, Philadelphia, \$12,682.26. Wayne avenue, from Johnson to Tulpehocken, from Haines to Rittenhouse, from Lincoln to Johnson, and from Tulpehocken to Haines street, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$73,127.80. York street, from Sixteenth to Twenty-first street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$31,448.67. Seventeenth street (track area), from Mifflin to Passyunk, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$6,998.10.

Schedule F—Redressed Granite Block Repaving. Lawnton avenue, from Leverington to DuPont street, United Paving Co., Widener Building, Philadelphia, \$5,533.10. Sedgley avenue, from Erie to Fifth street, Municipal Paving Co., Second and Wingohocking streets, Philadelphia, \$28,642.60. Seventeenth street (track area), Washington avenue to Reed street, United Paving Co., Widener Building, Philadelphia, \$8,896.31.

Schedule G—Smooth Dressed Granite Block Repaving. Juniper street, from Filbert to Cuthbert, Acchione Construction Co., 1607 McKean street, Philadelphia, \$2,911.50.

Schedule H—Furnishing and Delivering Fast-Hardening Portland Cement. Robert Patterson, Cherry Street Wharf, Schuylkill River, \$3,390; E. F. Bennis, Washington lane and East Chew street, Philadelphia, \$3,390.

Schedule I—Furnishing and Delivering Mixed Pebbles and Concrete Sand. Warner Company, 1518 Walnut street, Philadelphia, \$3,558.75.

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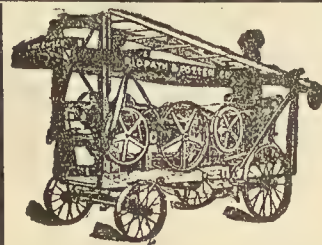
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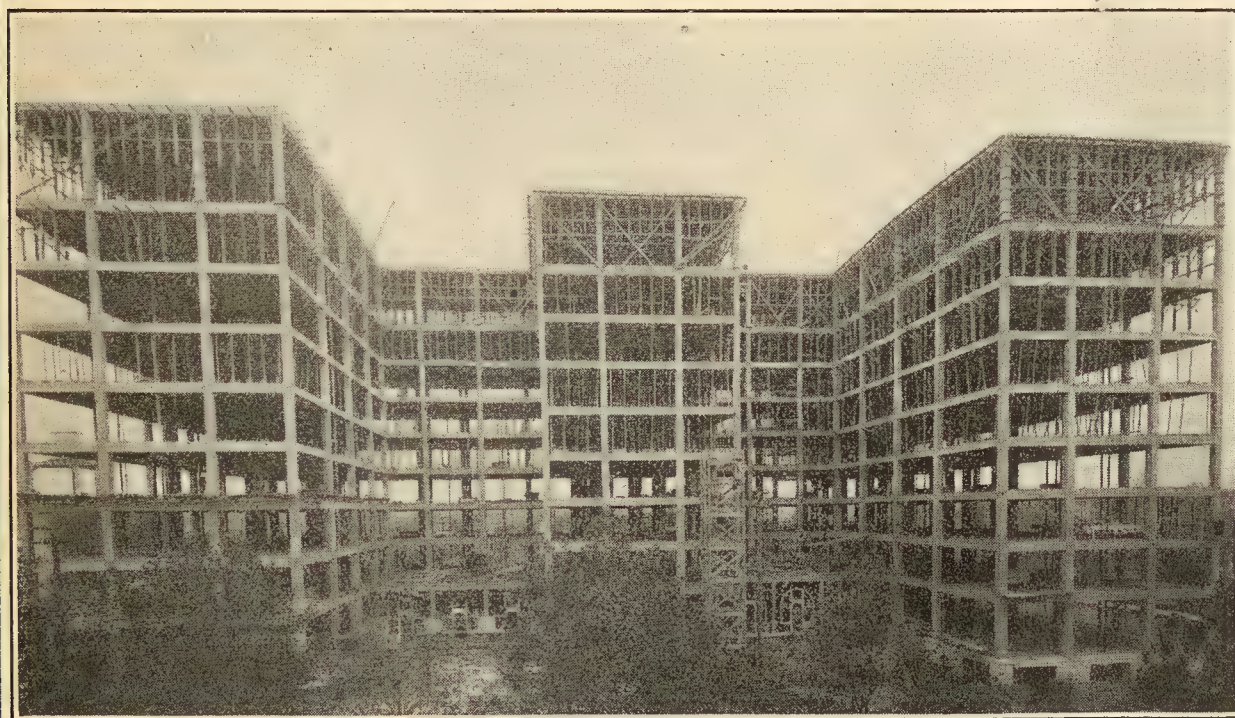
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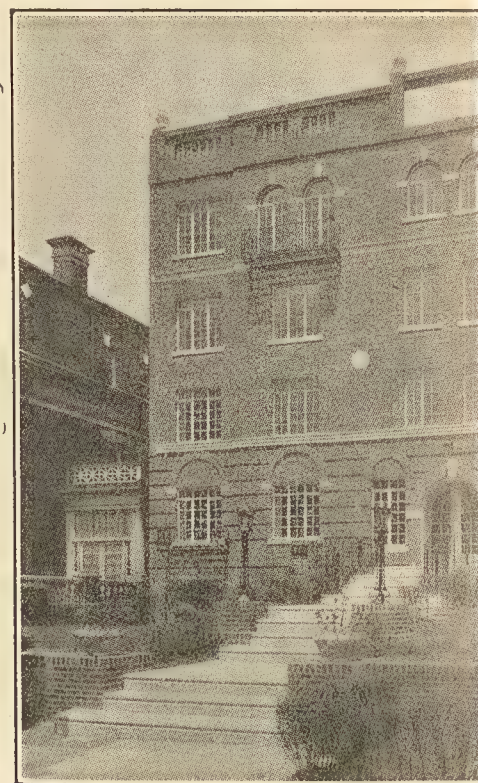
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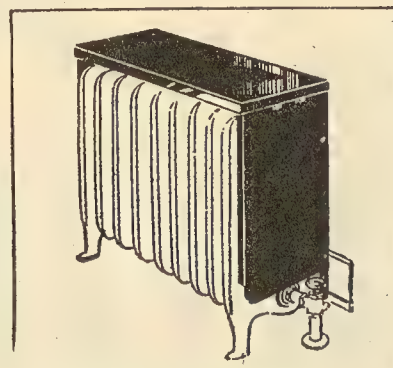
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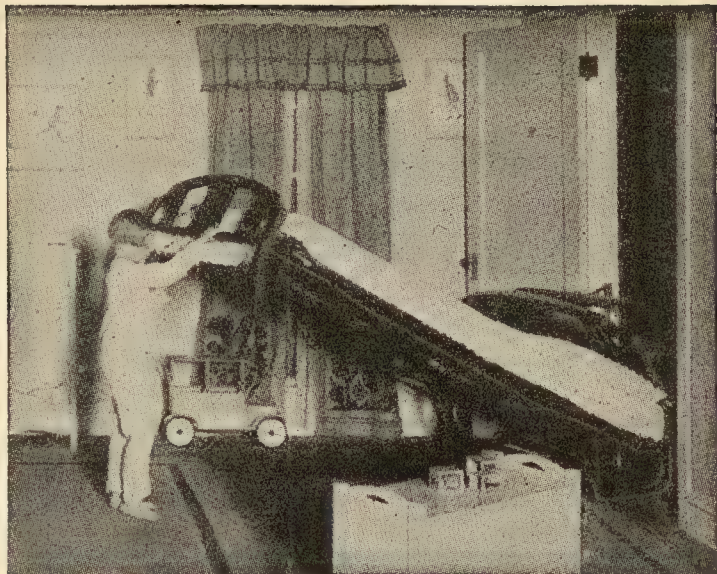
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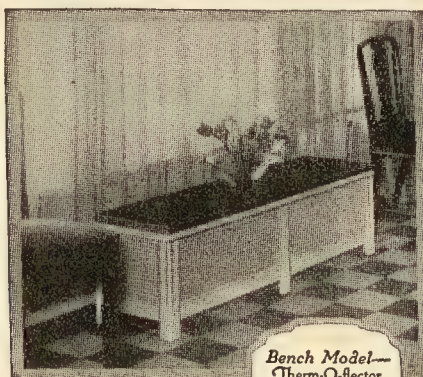
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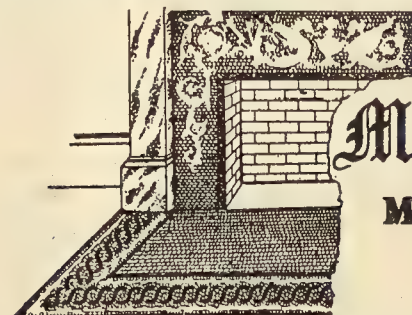
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Miscellaneous Sewer Work. Contracts awarded. Owners, Department of Public Works, Bureau of Engineers and Surveys, City Hall, Philadelphia. Burham, Arbutus, Wayne, etc., John Hastie, 5720 Virginia road, Philadelphia, \$16,891. Claridge, Lycoming to Hunting Park avenue, A. Cunado, 5920 Magnolia avenue, Philadelphia, \$2,889.25. McKean Parkway, Twenty-sixth to Twenty-eighth, A. Mattia, 748 South Tenth street, Philadelphia, \$7,076. Sixth, Lindley to Duncannon street, A. Curado, 5920 Magnolia avenue, \$6,900.50. Third, Berks to Norris, McCool Construction Co., 5033 Duffield street, Philadelphia, \$4,078.50. Twenty-eighth, Snyder to Jackson, Trio Construction Co., 212 North Sixty-fifth street, Philadelphia, \$3,034. Intercepting sewer, Disston, Wissinoming, etc., Vincent Jaffolla, 1138 Arrott street, Philadelphia, \$15,136.

Contract No. 216. \$6,478. Substation No. 7, Juniper south of Pine street, Philadelphia. Contract awarded E. F. Roberts, 2622 West Columbia avenue, Philadelphia. Owner, Dept. of City Transit, City Hall Annex, Phila.

Toilet Room (alts.), 12th near Chestnut st., Philadelphia. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Estate of Stephen Girard, 5th and Chestnut streets, Philadelphia. Cement work, metal lath, Cow-bay waterproofing, plastering, tile work, painting.

Pennsylvania Construction News

Women's Dormitory, Collegeville, Pa. Architect selected. Plans in progress. Architects, Frank R. Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Owners, Ursinus College, care of Women's Club, Collegeville, Pa.

Instruction Building, Collegeville, Pa. Plans in progress. Architects, F. R. Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Owners, Ursinus College, Dr. J. M. Anders, Philadelphia, Chairman of Building Committee.

Theatre, West Chester, Pa. Plans in progress. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Stanley Company of America, Warner Brothers, Eleventh and Market streets. Brick, limestone, steel, 1 story and mezzanine and balcony and basement.

Residence, Manoa, Pa. Preliminary sketches in progress. Architect, Henry L. Reinhold, Jr., 1632 Walnut street, Philadelphia. Owner, J. C. McClenahan, Manoa, Pa., Interior alterations.

Store and Apartment (alts.), Bethlehem, Pa. Plans in progress. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Frank Stone, 1108 West Market street, Bethlehem, Pa. General interior alterations, maple and pine floors, copper, plate glass.

Church, Fullerton, Pa. Plans in progress. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, St. John's Reformed Church, M. Newhead, Fullerton, Pa. Stone, brick, seating capacity 500, slate roof, maple floors, hot water heat, electric work.

School, Citronia, Pa. Plans in progress. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, South Whitehall Township School Board, O. N. Miller, president; C. M. Stauffer, secretary, 732 North Twenty-sixth street, Allentown, Pa. Brick, steel, 2 stories and basement, 67x90 feet, slag roof, maple floors.

Elks' Home, 325 Wyandotte street, Bethlehem, Pa. Architect selected. Architect, C. M. Andrews, 41 West Church street, Bethlehem, Pa. Owners, B. P. O. E., No. 191, Charles Wetzel, 332 Second avenue, Bethlehem, Pa. Brick, 3 stories.

Residence and Garage (alts. and add.), Valley Forge, Pa. Plans in progress. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owner, name withheld. General renovation and rebuilding, 2½ stories, stone.

Gymnasium, \$20,000, Ridley Park, Pa. Preliminary plans in progress. Architect, H. W. Newberg, Ridley Park, Pa. Owners, School District of Ridley Park, Dr. Fred Bonnett, Ridley Park, Pa. Brick, 35 feet high, 103x70 feet.

Hospital, Easton, Pa. Architects will be ready for new bids July 15th. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Easton Hospital, H. Lehr, president, 1200 Butler street, Easton, Pa. Brick, reinforced concrete, steel, cement floors, linoleum, steel, iron work, safety treads, metal doors, steel sash, kalamein doors, hollow metal doors, metal partitions, steel shutters, lockers, fire doors, cellized floors, screens, metal weather strip, tile, marble, terrazzo, waterproofing, excavation, hollow tile, 4 stories, 200x38 feet, wing 41x36 feet, nurses' home, 153x33 feet, 3 stories, isolation building, 1 story, 40x42 feet, boiler,

laundry and garage building, 1 story, 102x42 feet.

Service Station, Allentown, Pa. Owners will build. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Kemmerer Coal Co., Second and Union streets, Allentown, Pa. Brick, 1 story, 20x35 feet, asbestos shingle roof, concrete floors, hot water heat, electric light.

Store and Apartment, Northampton, Pa. Plans in progress. Owner will build. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Philip Gross, 1060 Main street, Northampton, Pa. Brick, 2 stories, 40x50 feet, slag roof, pine floors, vapor heat, electric light.

Residences, Bethlehem, Pa. Architects will be ready for bids the middle of the month. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Mrs. B. Dietrix and Miss Anna Uhl, care of architects. Brick, 3 stories, irregular size, slate roof, hardwood floors, tile and marble work, steam heat, electric light.

Apartment and Store (10-family apt.), East Third street, Bethlehem, Pa. Owner will be ready for bids July 1st. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, A. H. Phillips, 416 East Third street, Bethlehem, Pa. Brick, steel, 3 stories, 30x140 feet, slag roof, hardwood and pine floors, hot water heat, tile work, steel sash, copper work, east stone.

Residences (3), Fountain Hill, Pa. Owners will build. Architect, D. L. Warner, 203 West Fourth street, Bethlehem, Pa. Owners, M. & J. Reilly, 729 Flot avenue, Bethlehem, Pa. Brick, 2½ stories, 28x40 feet, slate roof, hardwood floors, electric light, tile work.

Double Residence, Bethlehem, Pa. Architect will be ready for bids July 1st. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, John Peters, care of architect. Brick, 2½ stories, 36x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Sunday School (alts. and add.), Darby, Pa. Sketches drawn. Preliminary plans in progress. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Mt. Zion Methodist Episcopal Church, Rev. Warren T. Dunkle, 921 Main street, Darby, Pa. Brick, limestone, 2 stories, 55x90 feet, maple floors, kitchen equipment.

Residence (alts. and add.), Merion, Pa. Architect will be ready for bids in one week. Architect, Joseph F. Lowery, Land Title Building, Philadelphia. Owner, Dr. John E. Loftus, Medical Arts Building, Philadelphia. Stone, stucco, 2½ stories, 20x32 feet, tile roof, hardwood and tile floors, plumbing, flagstone, hot water heat, electric light, tile work, steel sash.

Sunday School, Bloomsburg, Pa. Architect will be ready for bids in a week. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Bloomsburg Reformed Congregation, Rev. J. C. Baunback, 115 East Third street, Bloomsburg, Pa. Stone, 2 stories and basement, slate roof, maple floors.

Residences and Garages (3), Swarthmore, Pa. Owner taking bids due as soon as possible. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Louis Cole Emons, Swarthmore, Pa. Stone, frame, 3 stories, 26x42 feet, 1 story, 18x22 feet, shingle roof, hardwood and cement floors, hot water heat, electric light, tile work.

Residence (alts. and add.), Valley Forge, Pa. Architects taking bids due June 20th at 12 noon. Architects, Ritter & Shay, Packard Building, Philadelphia. Owner, Joseph Neff Ewing, Valley Forge, Pa. Stone, 2½ stories and basement, 44x31 feet, shingle roof, oak and pine floors, excavation, cement work,

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stone, masonry, iron work, oak and pine floors, painting, glazing, screens, plumbing, hot water heat, electric work, marble and tile work, flagstone, metal lath, plastering.

Sixth Street School Building, Upland, Pa. Owners taking bids due July 1st, 7 P. M. Owners, School Board, C. R. Buck, secretary, Upland, Pa. Brick, 2 stories, 32x64 feet, steam heat.

Miscellaneous Work (School), Norristown, Pa. Owners taking bids due June 21st, 3 P. M. (Eastern Standard Time). Owners, Board of Education, H. R. Kratz, Norristown, Pa. New fence for playground, furnace grates, electric wiring, general repairs, miscellaneous painting, playground repairs, plumbing, heating, roof repairs, brick pointing. Certified check, 5 per cent. for bids of \$300 or over.

Lodge Building (alts.), Somerton, Pa. Plans in progress. Architect will be ready for bids in 3 weeks. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owners, Henry A. Houseman Lodge, No. 717, F. and A. M., care of I. R. McGraw, Maple and Station avenues, Somerton, Pa. Interior alterations, hot water heat, tile work, furniture, stair work, hardwood floors, plumbing and fixtures, cement paving, removing and changing partitions and walls, concrete fireproofing, carpentry and mill work, painting, glazing, wall finish (Texture).

Hospital, \$500,000 (Penrose and Mary Carr Robinson Memorial Hospital), Hatboro, Pa. Work contemplated. Owners, Borough of Hatboro, care of Borough Trust Co., Ex., Hatboro, Pa.

Municipal Building (add.), Upper Darby Township (Garrett road, Long lane, Chestnut street), Pa. Owners taking bids due July 16th, 7 P. M. (Eastern Standard Time). Architect, John B. Thomson, 1321 Arch street, Philadelphia. Owners, Board of Commissioners, Upper Darby Township, Upper Darby, Pa. Reinforced concrete, brick, granite, limestone, steel, 128x58 feet, wing 50x75 feet, 3 stories and basement. Certified check, 10 per cent. Deposit, \$50, refund \$35. Demolition, excavation, hollow tile, structural steel, iron work, linoleum floors, steel sash, cork floors, terrazzo, composition floors, marble and tile work, sheet metal work, elevator entrances, vault doors, bronze work, carpentry and mill work, metal lath, plastering, painting, glazing, hardware, bond, concrete work, iron stairs, area gratings, composition roof, skylights, kalamein doors, bronze work, wall finish, hardware, cast stone (plumbing, heating, electric, elevators, ventilation, screens separate bids).

Residence, Pottstown, Pa. Architects taking bids due June 20th at noon. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owner, Dr. C. Hancox, Strand Theatre Building, Pottstown, Pa. Brick, stone, 2½ stories, 15x14 feet, 37x24 feet, 12x12 feet, slate roof, hardwood floors, electric light, tile work.

Store, Market street, Harrisburg, Pa. Architect taking bids due June 21st at noon. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Hyman Morrison, 3314 North Second street, Harrisburg, Pa. Cast stone, brick, steel, 3 stories, 30x120 feet, composition roof, maple floors, city heat, electric light, metal lath, tile work.

Hall (int. alts.), Gettysburg, Pa. Low bidder, A. R. Warner, Waynesboro, Pa. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Gettysburg College, care of architect. Brick, 3 stories, steam heat, fireproof floors, marble work, iron stairs, terrazzo work, ornamental plaster.

Sewers, etc., Norristown, Pa. County engineer, City Hall, Norristown, Pa. Owners

taking bids due June 26th at noon (Daylight Saving Time). Owners, County Commissioners; H. P. Hiltner, president, Norristown, Pa. Approximately 4,000 feet 10-inch vitrified pipe sewer with necessary Y's, manholes, etc. Bond, 80 per cent. Certified check, 5 per cent.

Street Paving, Marcus Hook, Pa. Assistant engineer, C. S. Baker, Crozer Building, Chester, Pa. Owners taking bids due July 1st, 7 P. M. Owners, Board of Commissioners, A. C. Rennie, secretary, Marcus Hook, Pa. Concrete paving, Ninth street, Green street, Washington street, Eleventh street. Certified check, \$500.

Paving, Darby, Pa. Owners taking bids due July 1st, 7 P. M. (Eastern Standard Time). Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Darby, Edward R. Franklin, secretary, Legion Hall, Main and Ridge streets, Darby, Pa. Resurfacing Marker avenue, Darby Terrace. Certified check, \$500.

Road Work, Pennsylvania. Owners taking bids due July 1st, at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, State Capitol, Harrisburg, Pa.

Bradford County, A-5800, Sayre Borough, 1,404 feet. One course reinforced concrete. Certified check, \$500.

Bucks County, R-386, Springfield and Durham Townships, 20,254 feet. Grading and drainage. Certified check, \$1,000.

Cambria County, A-5801, A-5535, Lorain Borough, Stonycreek Township, 5,105 feet. One course reinforced concrete. Certified check, \$1,000.

Clarion and Forest Counties, R-380, Farmington and Jenks Townships, 19,231 feet. Grading and drainage. Certified check, \$2,500.

Clearfield County, R-234-7, Decatur Township, 1,574 feet. One course reinforced concrete. Certified check, \$500.

Clinton County, A-5551, Chapman Township, 3,368 feet. Bituminous surface treated macadam surface course, 359 feet grading and drainage. Certified check, \$500.

Huntingdon County, R-192, Sec. R-1, Brady Township, 4,956 feet. One course reinforced concrete. Certified check, \$1,000.

Indiana County, R-319, Sec. 2, R-67, Sec. R-1, Armstrong Township, Shelocta Borough, 1,186 feet. One course reinforced concrete. Certified check, \$1,000.

Lehigh County, A-6262, Lower Macungie Township, Alburtis Borough, 9,167 feet. One course reinforced concrete. Certified check, \$2,000.

Road Work, Pennsylvania. Owners taking bids due July 2nd at 10 A. M. Owners, Pennsylvania Department of Highways, James L.

Stuart, secretary, Capitol Building, Harrisburg, Pa.

Allegheny County, R-72, R-389, Sec. 5, Shaler Township, 6,489 feet. One course reinforced concrete. Certified check, \$2,000.

Erie County, R-351, Sec. 1, Waterford Township, Summit Township, 16,620 feet. One course reinforced concrete, 250 feet grading and drainage. Certified check, \$2,500.

Lancaster and Chester Counties, R-215, 142, R-142, Salisbury and Sadsbury Townships, West Sadsbury and Sadsbury Townships, 26,143 feet, one course reinforced concrete (dual type); 6,500 feet one course reinforced concrete. Certified check, \$4,000.

Lancaster and Berks Counties, R-518, A-5581, Brocknock Township, 22,403 feet. Bituminous surface treated macadam surface course. Certified check, \$3,000.

Lawrence County, R-693, Sec. 1, Wilmington and Pulaski Townships, 20,953 feet. One course reinforced concrete. Certified check, \$2,500.

Lehigh County, R-443, Sec. 3, Weisenberg Township, 17,081 feet. One course reinforced concrete. Certified check, \$3,000.

Monroe County, A-5767, Jackson Township, 8,167 feet. Bituminous surface treated macadam surface course. Certified check, \$1,500.

Snyder County, R-28, Beavertown Borough, 5,752 feet. One course reinforced concrete. Certified check, \$1,500.

Susquehanna County, R-316, A-5797, A-6210, Chocanut Townships, 7,545 feet. One course reinforced concrete. Certified check, \$2,000.

Viaduct, Luzerne County, Route 5, Sec. 2, DuPont and Avoca Boroughs, over tracks of Delaware & Hudson and Lehigh Valley Railroads. Reinforced cement concrete wearing surface, structural steel, reinforced concrete, 351 feet 6 inches long, 30-foot roadway. Also one course reinforced concrete. Certified check, \$3,000.

Sales and Service Building, Bristol, Pa. Architect taking bids June 25th. Architect, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, Thos. A. Collier, Bristol, Pa. Brick, limestone, 1 story and mezz., 125x110 feet, irregular, slag roof, cement floor, plate glass, metal bars, electric light, steam heating.

Y. W. C. A., Coatesville, Pa. Architect taking bids due June 24th (note date). Architect, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owner, Y. W. C. A., care Miss May Penman, Coatesville, Pa.

Bridge over Stacey Creek at Stanbridge street, Norristown, Pa. Work contemplated. Owner, Borough of Norristown, Norristown, Pa. Steel, concrete.

New Building and Buildings (alts.), \$269,000. Muncy, Pa. Preliminary plans in progress.

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ress. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, State Industrial Home for Women, Muncy, Pa.

Pennsylvania Contracts Awarded

School (add.), Cornwells, Pa. Contracts awarded. W. J. Stevens, Wyncote, Pa., \$70,271; heating and ventilating, Crissman & Quillman, Norristown, \$11,988; electric, Louis Fitzgerald, Newtown, Pa., \$2,594; plumbing, Edgely Plumbing & Heating Co., Edgely, Pa., \$4,021; electric clock, Harry Hart, 7010 Ditman street, Philadelphia, \$1,160. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board, A. T. Lippincott, Cornwells, Pa. Brick, steel, 2 stories and basement, 117x38 feet, wing 72x25 feet, cast stone, bond, excavation, brick work, gypsum and concrete blocks, concrete, mastic, terrazzo floors, floor hardener, dampproofing, mineral floors, metal lath, plastering, steel joist, steel sash, iron stairs, built-up roof, roof ventilators, metal toilet partitions, maple floors, steel doors.

School (add.), Andalusia (Bucks County), Pa. Contracts awarded. Roy Randall, Jenkintown, Pa., \$14,598; heating and ventilating, Frank Boyer, Norristown, Pa., \$1,588; plumbing, Fred Wackenhut, 2416 Frankford avenue, 1,405; electric, Harry Hart, 7010 Ditman street, Philadelphia, \$365. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board, A. T. Lippincott, Cornwells, Pa. Brick, steel, 1 story, 93x33 feet, bond, excavation, stone masonry, cast stone, concrete and cement work, damp-proofing, concrete blocks, metal lath, plastering, steel sash, built-up roof, metal toilet partitions, mastic floors, carpentry and mill work, roof ventilators, maple floors.

School (add.), Trevoise (Bucks County), Pa. Contracts awarded. Chancellor Day, 3504 Rhawn street, Philadelphia, \$9,575; heating, Edgely Heating & Plumbing Co., Edgely, Pa., \$1,461; plumbing, Edgely Heating & Plumbing Co., Edgely, Pa., \$315; electric, Harry Hart, 7010 Ditman street, Philadelphia, \$425. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board, A. T. Lippincott, Cornwells, Pa. Brick, steel, 1 story and basement, 84x55 feet, hardware, metal toilet partitions, carpentry and mill work, concrete block, brick work, floor hardener, excavating, bond.

School (add.), Eddington, Pa. Contract awarded S. Van Sant, Bridgewater, Pa., \$3,000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Bensalem Township School Board, A. T. Lippincott, Cornwells, Pa. Toilet room addition, Duraflex floors, fire escapes, bond.

School, \$69,225. Merion Square, Pa. Contract awarded Bowden Construction Co., 1607 Summer street, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, W. L. Austin, Ardmore, Pa. Stone, granite, steel, 1 story and basement, 76x55 feet (plumbing, heating, electric separate), slag roof, maple floors, hollow tile, terrazzo work, bond, carpentry and mill work, painting, glazing, markite partitions, metal lath, plastering, iron work, metal shelving, iron stairs, tile and marble work, metal toilet partitions, tile-tex floors, hardware.

Sanatorium, Springfield, Pa. Contract awarded Charles W. Clemens, 1119 North Sixty-fifth street, Philadelphia. Architect, John Charles Norton, 336 Lennox road, Brookline, Pa. Owner, name withheld. Brick, steel, concrete, gypsum block, 2 stories, 68x125 feet,

hot water heat, electric light, tile work, slate roof, cast stone, rubber tile, linoleum floors, refrigeration.

Bank Building, \$50,000. Harleysville, Pa. Contract awarded H. H. Mininger, Souderton, Pa. Architect, C. M. Talley, Telford, Pa. Owners, Harleysville National Bank, A. C. Alderfer, president; Dr. V. Kelsner, vice-president and secretary, Harleysville, Pa. Brick, cast stone, steel, 1 story, mezzanine and basement, 70x42 feet, bond, excavation, cinder concrete block, limestone, caulking, steel concrete floors, steel sash, slag roof, metal lath, plastering, iron and tile work, hollow metal doors, oak floors, painting, glazing, hardware.

Telephone Building, Stroudsburg, Pa. Contract awarded A. J. Sardoni, Forty Fort, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company, Nineteenth and Arch streets, Philadelphia. Brick, steel, 2 stories and basement, 80x50 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile work, bond, iron work.

Building (Convent of Our Lady of Angels), Glen Riddle, Pa. Contract awarded John McShain, Inc., 1610 North street, Philadelphia. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, Sisters of the Third Order of St. Francis, Mother M. Kilian, General Superior, on premises. Stone, steel, 3½ stories and basement, 110x50 feet, slate roof, oak and cement floors, electric light, tile work, metal lath, bond, iron work.

Store Building, \$80,000. Baltimore and Highland avenues, Lansdowne, Pa. Contract awarded United Engineers & Constructors, 112 North Broad street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Electric Realty Corporation, care of engineers. Brick, steel, concrete, 2 stories, 30x102 feet, slag roof, store fronts.

Grading, Paving Driveway and Flagstone, Cynwyd, Pa. Contract awarded T. D. Moore & Son, care of architect. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Jeannette K. Trumper, Cynwyd, Pa.

School, Barker street, Ridley Park, Pa. Contract awarded Jones-Redditt Co., McClatchey Building, Upper Darby, Pa., \$15,456; electric, Roy McGinnis, Clifton Heights, Pa., \$408; plumbing, Benjamin Davis, Ridley Park, Pa., \$575; heating held under advisement. Owners, Board of Education, H. M. Davis, secretary, Tome Street School; Dr. F. Bonnett, president, Ridley Park, Pa. General construction, heating, plumbing, electric and ventilating.

School (alts.), Free street, Ridley Park, Pa. Contract awarded LeRoy Walker, Ridley Park, Pa., \$2,990. Engineer, H. H. Newberg, 416 Hammon street, Ridley Park, Pa. Owners, Board of Education, H. M. Davis, Ridley Park, Pa. Changing second floor auditorium to library and two class rooms.

Residence (alts. and add.), Drexel Hill, Pa. Contract awarded Frank H. Wilson, Ardmore, Pa. Architect, private plans. Owner, A. Adis Ziegler, School lane and Penn avenue, Drexel Hill, Pa. Stone, hollow tile, stucco, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, hot water heat, electric light, tile work.

Residence (add.), Haverford, Pa. Contract awarded Metzger & Co., Otis Building, Philadelphia. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, James Carstairs, 1419 Walnut street, Philadelphia. Brick, stone, 1½ stories and basement, 20x15 feet, slate roof, pine floors, ornamental iron work.

Residence (alts. and add.), Ardmore, Pa.

Contract awarded Frank E. Wallace, 337 South Camac street, Philadelphia. Architect, private plans. Owner, Dr. Ross Hall Skillman, Ardmore, Pa. Stone, 2 stories, 18x24 feet, shingle roof, pine floors, plumbing, hot water heat, electric light.

Residence (alts.), Conshohocken State road, near Spring Mill road, Montgomery County, Pa. Contract awarded H. H. Burrell & Son, 206 South Quince street, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, J. L. Alexander, on premises. Carpentry and mill work, plastering, painting, glazing, iron work, concrete work.

Office, Lititz, Pa. Contract awarded Herman Wohlsen, Woolworth Building, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Animal Trap Company of America, Lititz, Pa. Fireproof, 3 stories, 35x80 feet, built-up roof, linoleum floors, roof ventilators, electric work, tile, marble, steel sash.

Bank, Meshoppen, Pa. Contract awarded A. J. Sardoni, Forty Fort, Pa., \$41,900. Architect, L. V. Lacy, 45 Owen avenue, Forty Fort, Pa. Owners, First National Bank, Meshoppen, Pa. Brick, stone trim, 2 stories, 40x30 feet, tile, marble, electric work.

Dye House (add.), Eighth and Harrison streets, Allentown, Pa. Contract awarded M. A. Long & Co., Commonwealth Building, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Arcadia Knitting Mills, 749 Harrison street, Allentown, Pa. Brick, steel, 1 story, 60x150 feet, slag roof, cement floors, waterproofing, ornamental iron, slag roof, steel sash, electric light.

Residences and Garages, Nos. 607-608, Lots 5 and 10, Swarthmore, Pa. Contract awarded F. K. Worley Construction Co., Wesley Building, Philadelphia. Architect, J. Linerd Connarroe, 1518 Walnut street, Philadelphia. Owner, Louis Coles Emmons, Swarthmore, Pa. Brick, steel, 2½ stories and basement, No. 608, 54x21 feet; No. 607, 64-25 feet; hot water and vapor heat, electric work, metal lath, tile, marble, casement windows, ornamental iron, Zenethern, oak, pine and cement floors, slate and shingle roof, plumbing, hollow tile, flagstone.

Bungalow, near Langhorne, Pa. Contract awarded Chancellor Day, 3504 Rhawn street, Philadelphia. Architect, J. Williard Noopes, Lansdowne, Pa. Owner, John N. Lincoln, care of Clausen-Lincoln, 2046 North Van Pelt street, Philadelphia. Brick, 1½ stories and basement, 28x50 feet, asbestos shingle roof, slate and slag roof, pine floors, hot water heat, electric work, ornamental iron.

Double Residence, Allentown, Pa. Plans in progress. Contract will be awarded to L. Polak, R. D. No. 2, Beethlehem, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Stephen Sebanko and Charles Romaneck, care of architect. Brick, 3 stories, 30x45 feet, asbestos shingle roof, hardwood floors, electric light, tile work.

Church, Walnut street and Blakely road, Garden City, Pa. Contract awarded W. H. Neal, Swarthmore, Pa. Architect, private plans. Owners, The Lord's Temple Undenominational Fundamental Church, Rev. E. L. Foot, 1435 Kerlin street, Chester, Pa. Hollow tile plastered, 1 story, 28x42 feet, asphalt shingle roof, wood floors, steam heat, electric light.

Service Stations (2), \$7,500 and \$7,800. Ogontz Hills, Ogontz, Pa. Contract awarded Wolfe & Rotzell, Glenside, Pa. Architect, private plans. Owner, Charles Kahn, Seventeenth and Chestnut streets, Philadelphia. Hollow tile and stucco, 11x14 feet, cement floors, paving.

Pavilion, Branch Creek, near Telford, Pa. Contract awarded Gehman Contracting Co., Souderton, Pa. Owners, Association of Chester and Norristown Y. M. C. A. Camps. Concrete and frame.

Bridge, Pinetown, Pa. Contract awarded T. J. Foley Co., 930 Fulton Building, Pittsburgh, Pa. Owners, Borough of Upper Dublin Township and Pennsylvania Railroad, Broad Street Station, Philadelphia.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Erie County, R-272, A-5604, 5605, Elk Creek and Franklin Townships. One course reinforced concrete. L. V. Metz Construction Co., Erie, Pa., \$169,674.42.

Westmoreland County, R-117, Sec. 3, Hempfield Township, South Greensburg and Southwest Greensburg Boroughs. One course reinforced concrete. Consolidated Engineering Co., Wheeling, W. Va., \$165,390.37.

Northumberland County, R-336, Zerbe Township. One course reinforced concrete. D. W. Davis & Sons, Inc., Kingston, Pa., \$81,593.20.

New Jersey Construction News

Apartment House, \$150,000. 304-06 Cooper street, Camden, N. J. Sketches drawn. Too early for details. Architect, Roy G. Pratt, 1420 Walnut street, Philadelphia. Owners, Company, care of Philip Zimman, Wilson Building, Camden, N. J. Brick, steel, concrete, 5 stories.

Residence, Cranberry, N. J. Plans in progress. Architect, Walter Hankin, 224 East Hanover street, Trenton, N. J. Owner, A. L. Burrough, Cranberry, N. J. Brick, 2½ stories, 58x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Residence (add.), Venice Park, Atlantic City, N. J. Plans in progress. Architect, Clifford Clift, 1 South Tennessee avenue, Atlantic City. Owner, Mr. McClellan, care of architect. Frame, stucco, 2 stories, 27x50 feet, slag and tile roof, pine floors.

Residence (alts. and add.), Venice Park, Atlantic City, N. J. Plans in progress. Architect, Clifford Clift, 1 South Tennessee avenue, Atlantic City. Owner, Mrs. Short, care of architect. Brick, stucco, 1 story, 3 rooms, Ludowici tile roof, pine floors, hollow tile.

Schools (2), McKee City, N. J., \$26,000; Steelmanville, N. J., \$24,000. Plans not yet completed. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, Egg Harbor Township, James B. Brown, District Clerk, McKee City, N. J. Two-room add. to McKee City School. Two-room add. to Steelmanville School.

Home for the Aged, \$50,000. King's Highway East and New Cooper River Drive, Haddonfield, N. J. Plans in progress. Architect will be ready for general bids July 1st. Architect, H. E. Hall, Merchantville, N. J. Owner, Order of Shepherd of Bethlehem, care of Charles E. Carr, Publicity Building, Camden, N. J. Brick, steel, 2 stories, 145x32 feet, 40x32 feet, slag and slate roof, light concrete floors, bar joist, linoleum and wood floors, metal ceilings, dumb waiter, concrete foundations, vapor heat, metal lath, electric light, tile or terrazzo floors, plumbing.

Store (add. and alts.), 1635 Boardwalk, Atlantic City, N. J. Architect ready for bids. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, M. Gettleman, on premises. Stone, brick, steel, 2 stories, 30x160 feet, slag roof, concrete and pine

floors, vapor heat, electric light, tile, marble, steel sash, casement windows, bronze, waterproofing and dampproofing.

Air Hangar, Lakehurst, N. J. Plans in progress. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Great Eastern Airway, Clyde S. Adams, president, 2038 Spruce street, Philadelphia. Size of tract, 200 acres. Hangar, 80x160 feet.

School, West Atlantic City, N. J. Owners will be ready for bids Wednesday. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owners, Board of Education of Egg Harbor Township, James Brown, secretary, McKee City, N. J. Brick, 1 story, 70x40 feet, slag roof, pine floors, roof ventilators, waterproofing (heating, plumbing and electric separate), tile work.

Hotel, Beach Front, Atlantic City, N. J. Architect will be ready for bids at end of week. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, name withheld. Fireproof, 18 stories, 250x180 feet, concrete roof, cement floors, elevators, safety treads, roof ventilators, waterproofing and dampproofing, wrought iron pipe, brass pipe, ornamental iron, iron stairs, steel sash, steam heat, electric light, tile, marble.

Borough Hall (alts.), Pennington, N. J. Architect taking bids due June 25th. Architect, Walter Hankin, 224 East Hanover street, Trenton, N. J. Owners, Borough of Pennington, care of architect. Stucco, 2½ stories, 36x78 feet, slate roof, hardwood and composition floors, electric work, general alterations, overhead doors, partitions, cast stone, bluestone.

Chapel, Assembly Building and School, Trenton, N. J. Owners taking bids due July 2nd. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Pathological Laboratory, Vineland, N. J. Owners taking bids. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Cottage, State Reformatory for Women, Clinton, N. J. Owners taking bids due June 25th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William

J. Ellis, Commissioner, State House, Trenton, N. J.

Administration Building, State Reformatory for Women, Clinton, N. J. Owners taking bids due June 20th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Locker and Recreation Building, Borough of Berlin, N. J. Owners taking bids due June 20th, 8 P. M. Architects, Lackey & Hettle, 544 Federal st., Camden, N. J. Owners, Camden County Park Commissioner, Wilson Building, Camden, N. J. Cinder block and stucco, 2 stories, 22 feet 6 inches x 115 feet, Barrett roof, tile roof, concrete floors, metal partition, residential steel sash, basket racks, steel lockers, shelving and stools, disappearing stairs (electric and plumbing separate bids)

Armory, Woodbury, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, cut stone, steel, 1 story and basement, 107x67 feet, slate, built-up roof, linoleum floors, membrane waterproofing, ornamental iron work, caulking, fire doors, tile, marble, metal lath. Hood & Gross, 1535 Chestnut street, Philadelphia (base bid), \$51,990; plumbing, J. T. Allen, Woodbury, N. J., \$3,300; heating, Harry Knecht, West Collingswood, N. J., \$3,009.

Armory, Newark, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. General, F. & C. Haerter, Union City, N. J., \$239,500; D. O. Evans Construction Co., Hillside, N. J., \$39,880; plumbing, Schrinell Brothers, Newark, N. J., \$15,500; heating, Newark Heating Co., Newark, N. J., \$19,800; electric, K. W. Electric Co., Newark, N. J., \$9,470.

Schools (2), Jordantown, N. J., and Homestead, N. J. Low bidders. Architect, Walter Thomas Mayo, Temple Building, Camden, N. J. Owners, Pensauken Township School Board, J. Daniel Silber, president; George B. Fine, superintendent principal, Merchantville, N. J. Jordantown School, Mummaw Construc-

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tion Co., Camden, N. J. Homestead School, H. C. Paschall, Merchantville, N. J.

Viaduct, \$200,000. Mt. Ephraim, South of Ferry avenue, Camden, N. J. Plans in progress. Will take bids in August, 1929. Engineers, Beale M. Schmucker (Camden County); Clark Dillenback, chief engineer, Reading Railroad, Twelfth and Market streets, Philadelphia. Owners, Camden County and Reading Railroad, Twelfth and Market streets, Philadelphia. Reinforced concrete.

Bridge, \$500,000. Island Beach to Long Beach, near Barnegat, N. J. Work contemplated. Architect, M. Collison, Ocean City, N. J. Owners, Barnegat Bay Bridge Co., Barnegat, N. J. Steel, concrete trestle, 3,200 feet long.

Paving, Pensauken, N. J. Owners taking bids due June 24th, 8 P. M. (Daylight Saving Time). Engineers, Remington & Vosbury, 509 Cooper street, Camden, N. J. Owners, Township of Pensauken, R. C. Peabody, Pensauken, N. J. Bond. Deposit, \$20; refund, \$10. Certified check, 10 per cent. 900 square yards 7-inch reinforced concrete paving, 260 cubic yards excavation, 60 lineal feet 6-inch plain curbs.

Road Work (Bridges), Route 25, Sec. 8A, in Rahway and Linden, Union County, N. J. Owners taking bids due July 1st at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Concrete, reinforcing steel, structural steel (3 bridges). Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners taking bids due July 1st at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 4, Sec. 5, from Paterson to Arcola, Bergen County. Excavation, reinforced concrete pavement, reclipped granite block pavement, bituminous concrete, type FA-BC-1.

Route 39, Secs. 4, 5 and 6, South Pemberton Road to Oak Shade, Burlington County. Unclassified excavation, wet excavation, borrow, reinforced concrete pavement. Certified check, 10 per cent. Deposit, \$10.

Residences (6), \$18,000. 1154-56-58-60-62-64 Bergen avenue, Camden, N. J. Permit issued. Architect, private plans. Owner, Jos-

eph Munger, 3302 River avenue, Camden, N. J. Brick and block, 2 stories, 16 feet 4 inches by 40 feet, slag roof, hot water heat, electric light.

New Jersey Contracts Awarded

Parochial School, Landes and Myrtle avenue, Vineland, N. J. Contract awarded Francis C. Schad, Malaga avenue and Oak road, Vineland, N. J. Architect, Emil G. Perot, 1211 Arch street, Philadelphia. Owners, Sacred Heart Roman Catholic Church, Rev. James A. Bulfh, rector, Vineland, N. J. Holmesburg granite, block, steel, 3 stories and basement, 72x33 feet, iron and steel, excavation, damp-proofing, cast stone work, caulking, brick, cinder block, gypsum tile, carpentry and mill work, metal ceilings, weather stripping, kalamain doors, hollow metal partition, metal lath, plastering, marble and tile work, rubberstone tile floors, painting, glazing, electric work, steam heat, floor hardener, plumbing, iron stairs, area gratings, built-up roof, roof ventilators, skylights, maple floors.

Central Office, Woodbury, N. J. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, New Jersey Bell Telephone Company, care of Nineteenth and Arch streets, Philadelphia. Brick, limestone, steel, reinforced concrete, 2 stories and basement. 81x51 feet, concrete and slag roof, cement floors, waterproofing, steam heat, electric light, tile and marble work, metal lath, bond, iron work.

Store and Office (alts. and add.), \$14,100. Southwest Corner Federal and Day streets, Camden, N. J. Contract awarded M. C. Pennell, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, James M. Thoires, care of architects. Brick, cement, 3 stories, slag and wood roof, composition floors, hot water heat, electric light, skylights, damp-proofing, metal bulk windows, general interior alterations.

Residence (add.), **Garage (alts.)**. Cornwall and Ventnor avenues, Ventnor, N. J. Contract awarded Raymond Wochner, 1408 Emerson avenue, Venice Park, N. J. Architect, V.

B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Mrs. A. P. Rosenberger, care of architect. Stucco, hollow tile, 3 stories, 14x27 feet, slate roof, hardwood floors, heating extension, electric light.

Magazine Buildings and Connecting Road (8), Pedricktown, N. J. Contract awarded George W. Shaner & Son, Palmyra, N. J., \$40,100. Owners, Construction Service, Office of Quartermaster General, Delaware Ordnance Department, Pedricktown, N. J. 1 story, 25x40 feet, bond, excavating, concrete work, cement floors, waterproofing, steel and iron work, metal-covered doors, painting, 7,600 feet cinder driveway.

Garages (13), \$3,200. 515-17-19-21 Division street, Camden, N. J. Contract awarded B. P. Barraclof, Gloucester Heights, N. J. Architect, private plans. Owners, W. L. Hurley Co., Broadway and Pine streets, Camden, N. J. Block, 1 story, 11 feet 9 inches x 18 feet, 13 feet 6 inches x 19 feet, and 17x19 feet, slag roof, cement floors, electric light.

Plumbing, Heating, Electric Work. Fifth, Sixth, Market streets, Camden, N. J. Contracts awarded. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Board of Chosen Freeholders, Camden County, L. H. Ewing, Camden, N. J. Plumbing and drainage, H. Knecht, Collingswood, N. J., \$118,519. Electric, Franks & Sweeney Electric Co., Camden, N. J., \$82,000. Heating and ventilating, William M. Anderson Co., 600 Schuylkill avenue, Philadelphia, \$308,875.

Road Work. Route 42, Section 3, Camden County, N. J. Contract awarded F. A. Canuso, 812 South Twelfth street, Philadelphia, \$689,447.30. Owners, Camden County, William Myers, Chairman of Road Commission, Court House, Camden, N. J. Engineer, B. M. Schumacker, County Engineer, Court House, Camden, N. J. Reinforced concrete surface.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route S-4A, Tuckerton-Little Beach, Ocean County. Monihan & Hall, Inc., Ocean City, N. J., \$585,691.15.

Route 29, Sec. 9, Washington avenue to Union County Line, Somerset County. William Eisenberg & Son, Inc., Land Title Building, Camden, N. J., \$431,904.

Route 31, Sec. 7, Hamburg to North Church, Sussex County. S. B. Martin, Sussex, N. J., \$203,830.14.

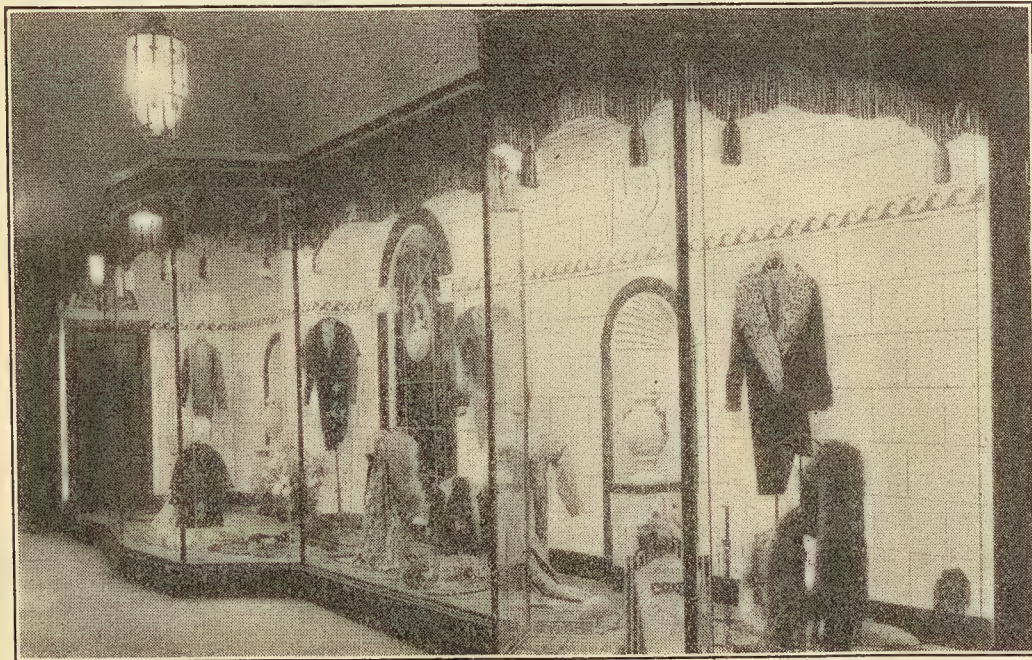
Route 48, Sec. 21, Malaga to Elmer, Gloucester and Salem Counties. G. Gentile, Bridgeton, N. J., \$246,788.55.

Bridges on R-39, Sec. 2, between Borden-town and Chambers Corner. William Driver, Inc., Trenton, N. J., \$65,723.55.

Building, \$10,000. 1486-88-90 Broadway, Camden, N. J. Contract awarded Benj. Bornstein, Bankers Trust Building, Philadelphia. Architect, I. Demschick, 1703 Chestnut street, Philadelphia. Owners, Benj. Bornstein and M. L. Goldman. 423 Bankers Trust Building, Philadelphia. Brick, 2 stories, 60x98 feet, slag roof, steam heat, electric work.

Building (add.), \$5,500. 1556 Mt. Ephraim avenue, Camden, N. J. Contract awarded Frank Ryder, 22 Stratford avenue, Westmont, N. J. Architect, F. Herbert Radey, 428 Market street, Camden, N. J. Owner, Wm. Kauffman, 1556 Mt. Ephraim avenue, Camden, N. J. Brick, 1 story, 8x59 feet, asphalt roof, hot air heat, electric light, new store front.

Building, \$3,300. 937-39 South 4th street, Camden, N. J. Contract awarded S. Levy, 1214 Kaighn avenue, Camden, N. J. Architect, Howard S. Stevenson, Camden, N. J. Owner, Joseph Dimona, 937-39 South 4th st., Camden, N. J. New store front, lowering floor, general interior alterations.



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Miscellaneous Construction News

Service Stations (15), location withheld. Plans in progress. Architect, private plans. Owners, Felt Brothers, 1518 Walnut street, Philadelphia. Lessees, Star Lubricating Co., care of owners.

Solvent Recovery Building No. 2, Amcello, Md. Owners taking bids. Architects, Engineering Department, Celanese Corporation of America, Cumberland, Md. Owners, Celanese Corporation of America, Cumberland, Md. Brick, steel, 3 stories and basement, 76x119 feet, gypsum built-up roof, cement floors, hollow tile, plumbing, roof ventilators, steam heat, rolled steel sash and skylights, kalamein doors, painting, glazing, hardware.

Robinson Hall, Washington, D. C. Architects taking bids due June 25th at noon. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Sibley Memorial Hospital, Washington, D. C. Alterations to first floor and two additional stories.

Remodeling Boiler Plant, Alterations to Building, Marine Barracks, Paris Island, S. C. Owners taking bids due June 24th. Architects, Bureau of Yards and Docks, Navy Department, Washington, D. C. Owners, United States Government, Washington, D. C. Brick work, steel windows, steel work, painting, glazing, asbestos shingle roof, terrazzo floors.

Repairs and Alterations to Marine Barracks, Navy Yard, Washington, D. C. Owners taking bids due June 24th, 11 A. M. Architects, Bureau of Yards and Docks, Navy Department, Washington, D. C. Owners, United States Government, Washington, D. C. Painting, carpentry and mill work, metal ceilings, brick work, plumbing, electric work, heating.

Road Work, Delaware. Low bidders. Owners, State Highway Department, Dover, Del. Contract 125, Hazlettville-Dover, 6.90 miles. George & Lynch, Dover, Del. Stone, \$50,442; slag, \$43,822.

Contract 126, Flowers Station-Maryland Line, 3.97 miles. Field, Barker & Underwood, Commercial Trust Building, Philadelphia. Stone, \$34,169.50; slag, \$26,499.50. W. W. Truitt, Lincoln City Del., stone, \$34,143; slag, \$29,743.

Contract 127, surface treatment, 26 miles. A. Lee Orrell, Odessa, Del. (A) \$8,170.20, (B) \$6,827, (C) \$8,735.

George Howe and William Lescage announce the formation of a partnership for the general practice of architecture under the firm name of Howe & Lescage, 414 South Nineteenth Street, Philadelphia. Phone, Pennypacker 1358.

Miscellaneous Contracts Awarded

Plant, Baltimore, Md. Contract awarded Frainie Brothers & Haigley, 19 West Franklin street, Baltimore, Md. Architect, Henry Manley, 5 East Fifty-third street, New York City. Owners, Proctor & Gamble Manufacturing Co., 906 Broadway, N. Y. Reinforced concrete, brick, cast stone, steel, slag, concrete and wood deck roof, concrete and pine floors, plumbing, electric light, excavation, hollow tile, membrane waterproofing, safety treads, area gratings, iron stairs, kalamein doors, steel sash, steel partitions, mastic floors, wood block, magnesite floors, rolled steel skylight, asphalt asbestos roofing. Power building, 2 stories, 102x37 feet. Chipso building, 3 stories and basement, 168x98 feet. Bar soap building, 3 stories and basement, 309x99 feet. Warehouse, 3 stories, 254x98 feet. Heater building, 2 stories, 52x23 feet.

Dormitory, Frederick, Md. Contract awarded Lloyd C. Cullor, Fredereick, Md. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Hood College, J. H. Appel, president, Frederick, Md. Brick, steel, 4 stories, 50x156 feet, slate roof, composition floors, central heat, electric light.

School, Wilmington, Del. Contract awarded H. John Homan Co., Eighteenth and Cherry streets, Philadelphia. Architects, Guilbert & Betelle, Chamber of Commerce, Newark, N. J. Owners, Delaware School Auxiliary for St. Elizabeth's Roman Catholic Church, Rev. William Temple, DuPont Building, Wilmington, Del. Brick, steel, 2 stories and basement, 226x78 feet, wing 75x45 feet, slag roof, rolled steel skylights, excavation, reinforced concrete, limestone, bluestone, metal lath, plastering, tile work, terrazzo work, ornamental iron work, safety treads, metal toilet partitions, hardware, painting, glazing, steam heat, electric work, plumbing, ventilating system.

BUILDERS PROPOSE MID-SUMMER CONFERENCE

A midsummer conference of representatives of Builders' Exchanges throughout the country is being promoted by the national association of Builders' Exchanges to be held in Omaha, Neb. The purpose of this conference will be to consider existing conditions in the building industry and ways and means of improving the same on behalf of those engaged in this line of business, with special reference to contractors and sub-contractors. Notices for the meeting has been sent out

from the national headquarters in Washington. It is expected that the session will cover several days and be productive of recommendations to the various affiliated bodies.

UNCLE SAM PLANS TO KEEP WORKERS COOL

*Will Provide Air Conditioning In All
Federal Buildings; Washington
Fights Heat*

Uncle Sam is going in for air conditioning of all his public buildings on a big scale.

Excessive moisture will be taken out of the air of office buildings in Washington during the hot days this summer and a constant change of cool air provided for the thousands of government workers who have sweltered in previous years, it is announced. Modern ventilating systems are being installed in even the oldest buildings, while new structures will be equipped with the latest in air conditioning. This will make it possible, too, to humidify heated dry air during the winter months, according to Major S. M. Corbett of the Army Medical Corps who is in immediate charge of the work with the assistance of the industrial hygiene division of the Public Health Service.

Thousands of government workers are quartered in temporary war buildings of light wood construction with tarred roofs and these buildings are sometimes veritable furnaces in summer. Several times last year it was necessary to suspend work because the heat was unbearable. This year, especially designed machinery will be used to dehumidify the atmosphere, making the high temperatures bearable. Tests conducted by the Public Health Service definitely demonstrated that air conditioning greatly improved the efficiency of workers.

"We found that the efficiency and health of workers are greatly improved and that there is also less loss of time from sickness and a definite saving of fuel where the proper relative humidity and amount of air motion is maintained,"

DAILY BUILDING NEWS

Leads to More Business

You Can Easily See How
By Following Every Morning

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1530 CHESTNUT STREET
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Deformed Reinforcement Bars

IN ALL YOUR CONCRETE CONSTRUCTION

They Insure Reliability and Durability

All sizes Rounds and Squares conforming to A. S. T. M. specifications

QUICK SHIPMENTS

The Milton Manufacturing Company

MILTON, PENNA.

Philadelphia Agent

PENN STEEL SERVICE CO.

FULLER BUILDING

PHILADELPHIA, PA.

Major Corbett said. "There is also less deteriorating of furniture, fabrics, paintings and books.

"Another feature of air conditioning and nearly as important as humidifying is dehumidifying. An excessive moisture is about as vicious as too little moisture. Our hot, muggy days in this climate are caused principally by a high relative humidity or excessive moisture.

"High temperatures reduce efficiency so far as human beings are concerned. They slow down some of the more important physiological functions of our bodies and increase the tendency to disease. Hospitals, in my opinion, would be greatly benefitted by humidifying the air in winter and dehumidifying in summer. Moist air in operating rooms would reduce the liability to explosions of the ether by sparks caused by static electricity.

"It would provide greater comfort for all patients, especially those suffering with respiratory affections. Every one knows the efficacy of the croup kettle, which is nothing more than a humidifier with some medication added. In summer, if the air in hospitals was dehumidified and cooled, patients would not only be more comfortable, but recovery would be expedited. Metabolism is sped up, the body functions more efficiently and resistance to disease is increased."

In many cities throughout the country where new post office and other federal buildings are being constructed, air conditioning will be provided, the government engineers have decided. More modern methods of ventilating government hospitals and penal institutions also will be adopted, it was stated. A new federal building to be erected shortly in Toledo, for example, will have as modern an air conditioning plant as any theatre, big department store, or latest type of commercial office building.

KNOTTY WOODS AGAIN COMING INTO FAVOR

Imitation is a sure sign of appreciation and it is but a short step from the growing admiration for the old time rooms paneled in knotty pine, to the present day fashion which favors the skillful use of other woods containing charming variations in grain effect.

This may seem to be something of an innovation, for except in the case of the cedar chests, which are so often seen in bedrooms and halls, and are always liberally bespeckled with knots, clear wood had come to be considered essential.

But an inspection of old furniture and the interior trim in rooms of other days, reveals that this has by no means always been the case. In fact, many examples of the use of knotty wood can be found, and when skilfully done, the effects are most interesting. The present tendency to use knotty wood is, therefore, not new,

but is rather a harking back to an older fashion.

Supporting and emphasizing this trend of taste are the very real advantages of conservation of wood resources and reduction of construction costs. It is this angle of the subject that is emphasized by the National Committee on Wood Utilization, which operates in connection with the Federal Department of Commerce. As this committee points out, small, tight knots do not mean defects either in beauty or strength, and the difference in cost between clear grades and those having a few tight knots as much as 50 per cent.

This is a real item in the cost of building. For instance, the growing practice of using knotty American walnut for the portion of a floor normally covered by rugs reduces the cost, making it economical to use this exceptionally attractive and desirable flooring, whereas, if nothing but the clear grade were used, the cost would be too great. The same is true of interior trim. The grain effects in knotty walnut are most interesting and such wood is being used for this purpose with very satisfactory results and at a cost which permits the use of this exceptionally beautiful wood, even in homes of very moderate price.—*Builder's Weekly*.

A NEW "REINFORCING" PLASTER BASE

Ribbed Steeltex for Plaster, the latest development of the National Steel Fabric Company of Pittsburgh, Pa., solves the last of the practical application problems of plaster reinforcement. The original Steeltex for plaster, which achieved such wide acceptance by architects, building owners, and the trade generally, consisted of a welded and galvanized wire mesh with a heavy waterproof backing. This backing automatically formed a monolithic plaster slab solidly reinforced with strong steel bars, like steel reinforcement in concrete. It also damp-proofed the plaster and added a measure of insulation and sound-proofing value.

Ribbed Steeltex, while generally similar to the earlier product, incorporates several improvements which raise the level of its efficiency far above that of the older form. Horizontal V-shaped steel ribs have been added to stiffen the sheet, which lies perfectly flat, without bulges or hollows that waste plaster, and requires no stretching or toe-nailing. The ribs are strong and rigid, and yet they are readily cut with ordinary hand shears and may be bent to fit the material in corners or on curved surfaces. When the sheets are cut the edges remain smooth and do not injure the workman's hands—a feature keenly appreciated by the lathers.

The backing of the improved Steeltex for Plaster has been greatly increased in

weight. The sheets are now standard size, 50x28½ inches, and they are packed in strong fibre-board cartons containing 50 square yards.

The National Steel Fabric Company followed closely the specifications of practical plasterers, lathers, contractors and architects in developing this new Ribbed Steeltex for Plaster. So that there would be no question as to the ultimate result, thousands of yards were made by hand and were successfully used in all types of buildings before even one machine was built. After repeated tests with the hand-made product, followed by installations of the first machine-made product (which resulted in a flood of repeat orders far exceeding the capacity of the first units), the National Steel Fabric Company installed a huge battery of new fabricating machines to meet national distribution requirements before offering the new Steeltex to the trade.

The simple changes which resulted have brought more economical and faster handling of the material on the job and have increased the speed at which the plaster can be applied. The sheets are easily handled by one man and are quickly attached with common 4d nails.

Lathers who have applied this material, without previous experience, find it saves them effort and goes up as rapidly as any other plaster base. Plasterers agree that this stiffened Steeltex takes the scratch coat quickly on ceilings as well as walls and save plaster. In this respect tests on actual jobs show it to be the best working plaster base on the market by far.

Under plasterer's trowel this improved Steel tex presents a surface of board-like rigidity due to the heavy backing and stiffening ribs. Plaster is applied with economy of effort and without waste; and at the same time it is both mechanically bonded and structurally reinforced. It is not merely a veneer (as over wall-board) depending for its strength on its own adhesive properties. The finished plaster wall is stiffer than one with metal or wood lath as a base, and is superior because the reinforcement is in the heart of the plaster and because the heavy backing adds extra values without cost.

The improved Steeltex for Plaster is finding a ready and enthusiastic market, as it retains all of the recognized superiorities of the original Steeltex and simplifies its handling and application for the common benefit of the lather, the plasterer, and the owner.

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS
Metalweld, Inc. . . . 26th and Hunting Park Ave., Phila.

AIR COMPRESSORS FOR HIRE
Compressed Air Service Corp.,
5531 Haverford Ave., Phila.
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.
Rental Service Co. . . . 20th and Venango Sts., Phila.

AIR WASHERS
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE
DeGiuseppe Art Marble Co. . . 818 N. 48th St., Phila.
Pigeon, Ernest A. . . . 4231 Filbert St., Phila.

ARTESIAN WELLS
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
Robbins, Chas. H., Co. . . . Ranstead & Mole Sts., Phila.
Weber, F., Co. . . . 125 S. 12th St., Phila.
Weil, J. H., Co. . . . 1315 Cherry St., Phila.

ASBESTOS SHINGLES
Warren-Ehret Co. . . . Luzerne and "E" Sts., Phila.

ASBESTOS WALL PANELS
Howard Ketcham . . . 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER
Blue Print Shop . . . 1520 Sansom St., Phila.
Robbins, Chas. H., Co. . . . Ranstead & Mole Sts., Phila.
Weber, F., Co. . . . 125 S. 12th St., Phila.
Weil, J. H., Co. . . . 1315 Cherry St., Phila.

BOILER AND PIPE COVERING
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

BRICK
Cox, Janeway & Co. . . . Real Estate Trust Bldg., Phila.
Ketcham, O. W. . . . 121 N. 18th St., Phila.

BUILDERS
Anthony Darin & Bros. . . . 5552 Master St., Phila.
Mitchell Bros. . . . 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDING MATERIALS
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

BUILDERS' SUPPLIES
Service Supply Corp. . . . 20th & Venango Sts., Phila.

CABINET WORK
Huskey Mfg. Co. . . . Columbia and Howard Sts., Phila.

CAISSONS
Foundation & Construction Co. . . 1320 Race St., Phila.

CASEMENTS (Window or Door)
DePett Casements . . . 900 Chestnut St., Phila.

CAULKING
Malia, Thos. J. . . . 226-32 W. Mentor St., Phila.
Jules H. Rosenberg . . . 2313 Walnut St., Phila.

CAST STONE
New Jersey Cast Stone Co. . . . Vineland, N. J.

CEMENT WORK
D'Lauro, John . . . 7732 Ardleigh St., Phila.
Massiah, Frederick Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

COLUMNS (Metal)
Pearce Fireproof Co. . . . 1911 N. 2nd St., Phila.

CONCRETE WORK
Massiah, Frederick Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Service Supply Co. . . . 20th and Venango Sts., Phila.

CORK TILE
Livezey Linoleum Floors, Inc. . . 128 S. 19th St., Phila.

CURBING
Graham, Frank C. . . . 314 S. Camac St., Phila.

DAILY BUILDING NEWS
Building News Pub. Co. . . . 1530 Chestnut St., Phila.

DAMP-PROOFING
Anti-Hydro Waterproofing Co.,
1518 Walnut St., Phila.
Barnett Bingswanger, Jr. . . . 829 N. 3rd St., Phila.
Hydroseal Waterproofing Co. . . 829 N. 3rd St., Phila.

DISMANTLING
Industrial Dismantling Co.,
2500 E. Huntingdon St., Phila.

DOOR BEDS
Murphy Door Bed Co. . . . Lewis Bldg., Phila.

DRAWING MATERIALS
Robbins, Chas. H., Co. . . . Ranstead & Mole Sts., Phila.
Weber, F., Co. . . . 125 S. 12th St., Phila.
Weil, J. H., Co. . . . 1315 Cherry St., Phila.

ELECTRICAL REFRIGERATION
Philadelphia Gas Range Co. . . 1026 Arch St., Phila.

ELECTRIC SAWS
Crowe Safety Saw Sales Corp.,
515 Real Estate Trust Bldg., Phila.

FENCES
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS
Frank W. Butterworth . . . 1518 Walnut St., Phila.

FIRE INSURANCE
Insurance Co. of North America . . 1600 Arch St., Phila.
Phila. Fire & Marine Insurance Co.,
N. E. Cor. 15th and Locust Sts., Phila.

FIREPROOFING
Pearce Fireproof Co. . . . 1911 N. 2nd St., Phila.

FLAG POLES
J. E. Lingo & Son, Inc. . . . Camden, N. J.

FLOORING COMPOSITION (Mineral)
Selby, Battersby & Co. . . . 810 Noble St., Phila.

FLOOR HARDENER
Anti-Hydro Waterproofing Co. . . 1518 Walnut St., Phila.
Hydroseal Waterproofing Co. . . 829 N. 3rd St., Phila.

FLOORING (Cork)
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.
Livezey Linoleum Floors, Inc. . . 128 S. 19th St., Phila.
Selby, Battersby & Co. . . . 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)
Selby, Battersby & Co. . . . 810 Noble St., Phila.

FLOORING (Rubber Tile)
Livezey Linoleum Floors, Inc. . . 128 S. 19th St., Phila.
Selby, Battersby & Co. . . . 810 Noble St., Phila.

FLOORING (Steel)
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.

FLUE LINING
Clausen, Wm. H. . . . 27th and Diamond Sts., Phila.
Cox, Janeway & Co. . . . Real Estate Trust Bldg., Phila.

FOUNDATIONS
Foundation & Construction Co. . . 1320 Race St., Phila.

GAS RANGES
Philadelphia Gas Range Co. . . 1026 Arch St., Phila.

GRATINGS
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.

GUARDS (Machine and Engine)
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

HEATING CONTRACTORS
Bowers Bros. & Co. . . . 2015 Sansom St., Phila.

HOLLOW TILE
Clausen, Wm. H. . . . 27th and Diamond Sts., Phila.
Cox, Janeway & Co. . . . Real Estate Trust Bldg., Phila.
Ketcham, O. W. . . . 121 N. 18th St., Phila.

INSURANCE
Insurance Co. of North America . . 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.
E. I. Simpson Co. . . . Widener Bldg., Phila.
Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)
Henry A. Hitner's Sons Co.,
Gaul and Huntingdon Sts., Phila.
Lederle, Robt. B., & Co. . . . Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co. . . 2500 Duncan St., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

KITCHEN CABINETS
Philadelphia Gas Range Co. . . 1026 Arch St., Phila.

LEVELS
Robbins, Chas. H., Co. . . . Ranstead & Mole Sts., Phila.
Weber, F., Co. . . . 125 S. 12th St., Phila.
Weil, J. H., Co. . . . 1315 Cherry St., Phila.

LINOLEUM
Livezey Linoleum Floors, Inc. . . 128 S. 19th St., Phila.

LOCKERS (Steel)
Richard W. Jefferis Co.,
11th and Linden Sts., Camden, N. J.

LUMBER
Ketcham, Howard . . . 3rd and Girard Ave., Phila.

MARBLE
Frank W. Butterworth . . . 1518 Walnut St., Phila.

MARBLE AND MOSAIC
Belfi Bros. Co. . . . 1923 Market St., Phila.
Franklin Tile & Mosaic Co. . . 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co. . . 433 Spruce St., Phila.
Pennsylvania Tile & Mosaic Co. . 1637 Wood St., Phila.
Roman Mosaic & Tile Co. . . 435 Green St., Phila.

MASON BUILDER
D'Lauro, John . . . 7732 Ardleigh St., Phila.

METAL DOORS
Frank W. Butterworth . . . 1518 Walnut St., Phila.

METAL LATH
Pearce Fireproof Co. . . . 1911 N. 2nd St., Phila.

METERS
Phila. Meter Co. . . . Real Estate Trust Bldg., Phila.

PAVING BRICKS
Ketcham, O. W. . . . 121 N. 18th St., Phila.

PHOTOSTATS
Weber, F., Co. . . . 125 S. 12th St., Phila.

PILES
Foundation & Construction Co. . . 1320 Race St., Phila.

PLASTER (Colored)
California Stucco Products Co. . . 1600 Arch St., Phila.
Mayflower Stucco Co. . . . Plymouth Meeting, Pa.

PLASTERERS
Keen Bros. . . . Merchantville, N. J.
Pigeon, Ernest A. . . . 4231 Filbert St., Phila.

PLASTERING (Ornamental)
DeGiuseppe Art Marble Co. . . 818 N. 48th St., Phila.
Pigeon, Ernest A. . . . 4231 Filbert St., Phila.

PORCH ENCLOSURES
Malia, Thos. J. . . . 226-32 W. Mentor St., Phila.

RANGES
Philadelphia Gas Range Co. . . 1026 Arch St., Phila.

REFRIGERATORS
Philadelphia Gas Range Co. . . 1026 Arch St., Phila.

REINFORCING BARS
Milton Mfg. Co. . . . Milton, Pa.
Montgomery Iron & Steel Co. . . 2500 Duncan St., Phila.
Penn Steel Service Co. . . . Fuller Bldg., Phila.

ROAD MACHINERY
Service Supply Corp. . . . 20th & Venango Sts., Phila.

ROLL SCREENS
American Metal Weatherstrip Co.,
2115 Diamond St., Phila.

ROOFING
Malia, Thos. J. . . . 226-32 W. Mentor St., Phila.

ROOFING MATERIALS
MacGarvie, James B. . . . Magnolia, N. J.
John Nacey Co. . . . 7254 Paschall Ave., Phila.
Warren-Ehret Co. . . . Luzerne and "E" St., Phila.

ROOFING SLATE
Chapman Slate Co. . . . Bethlehem, Pa.

ROOFING TILE
Ketcham, O. W. . . . 121 N. 18th St., Phila.

SAFETY TREADS (Grating)
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.

SCAFFOLDING
Patent Scaffolding Co. . . . 2835 Bridge St., Phila.

SCREENS (Fly)
Malia, Thos. J. . . . 226-32 W. Mentor St., Phila.

SEPTIC TANKS
Philadelphia Septic Tank Co.,
1129 Glenwood Ave., Phila.

SEWAGE DISPOSAL SYSTEMS
Chandler & Starr . . . 119 N. 4th St., Camden, N. J.

SEWER PIPE
Clausen, Wm. H. . . . 27th and Diamond Sts., Phila.
Cox, Janeway & Co. . . . Real Estate Trust Bldg., Phila.

SHEET METAL WORK (General)
MacGarvie, James B. . . . Magnolia, N. J.
Strandwitz & Scott, Inc.,
537-49 N. 2nd St., Camden, N. J.

SHEETROCK (Wall Board)
Pearce Fireproof Co. . . . 1911 N. 2nd St., Phila.

SHELVING (Steel)
Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

SHOWER CURTAINS
Phila. Blanket Co., Inc. . . 1015 N. Bodine St., Phila.

SOUNDINGS
Ridpath & Potter Co.,
S. W. Cor. 22nd & Cambria Sts., Phila.

STEEL SASH
Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

STONE
St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

STUCCO MANUFACTURERS
California Stucco Products Co. . . 1600 Arch St., Phila.
Mayflower Stucco Co.,
Chestnut Hill, Phila., and Plymouth Meeting, Pa.

SURETY BONDS
Insurance Co. of North America . . 1600 Arch St.
E. I. Simpson Co. . . . Widener Bldg., Phila.

TERRA COTTA (Architectural)
Atlantic Terra Cotta Co. . . . Otis Bldg., Phila.
Conkling-Armstrong Terra Cotta Co.,
1600 Arch St., Phila.

TERRA COTTA SEWER PIPE
Clausen, Wm. H. . . . 27th and Diamond Sts., Phila.
Cox, Janeway & Co. . . . Real Estate Trust Bldg., Phila.

TILE AND TERRAZZO WORK
Belfi Bros. Co. . . . 1923 Market St., Phila.
Franklin Tile & Mosaic Co. . . 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co. . . 433 Spruce St., Phila.
Pennsylvania Tile & Mosaic Co. . 1637 Wood St., Phila.
Roman Mosaic & Tile Co. . . 435 Green St., Phila.

TRANSITS
Robbins, Chas. H., Co. . . . Ranstead & Mole Sts., Phila.
Weber, F., Co. . . . 125 S. 12th St., Phila.
Weil, J. H., Co. . . . 1315 Cherry St., Phila.

TRAVERTINE
DeGiuseppe Art Marble Co. . . 818 N. 48th St., Phila.
Pigeon, Ernest A. . . . 4231 Filbert St., Phila.

WALL BOARD, COMPO BOARD
Ketcham, Howard . . . 3rd & Girard Ave., Phila.

WALL BOARD
Ketcham, Howard . . . 3rd & Girard Ave., Phila.

WALL COPING
Clausen, Wm. H. . . . 27th and Diamond Sts., Phila.
Cox, Janeway & Co. . . . Real Estate Trust Bldg., Phila.

WALL FINISH
California Stucco Products Co. . . 1316 Olive St., Phila.
Mayflower Stucco Co. . . . Plymouth Meeting, Pa.

WALL PLASTER
California Stucco Products Co. . . 1316 Olive St., Phila.
Mayflower Stucco Co. . . . Plymouth Meeting, Pa.

WATER HEATERS
Philadelphia Gas Range Co. . . 1026 Arch St., Phila.

WATERPROOFING
Anti-Hydro Waterproofing Co. . . 1518 Walnut St., Phila.
Hydroseal Waterproofing Co. . . 829 N. 3rd St., Phila.

WEATHERSTRIPPING (Metal)
American Metal Weatherstrip Co.,
2115 Diamond St., Phila.

WINDOW GUARDS AND WIRE PARTITIONS
Audubon Wire Cloth Co. . . . Audubon, N. J.

WIRE AND WIRE WORK
Audubon Wire Cloth Co. . . . Audubon, N. J.



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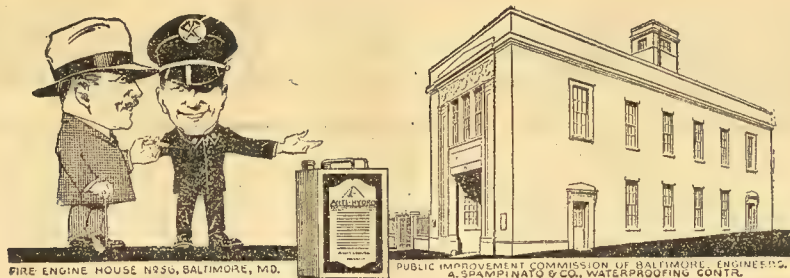
*Indemnity Insurance Company of North America
write practically every form of Insurance, except life*

BUILD WITH LESS RISK

Insurance, of one kind or another, has gradually made building a less hazardous business.

Now, the risk of loss by fire while a structure is in course of erection is assumed by a "Builder's Risk Policy."

Builders are invited to consult with North America Agents on the coverage that this insurance provides; its cost, and other details, without obligation.



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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 26
June 26, 1929

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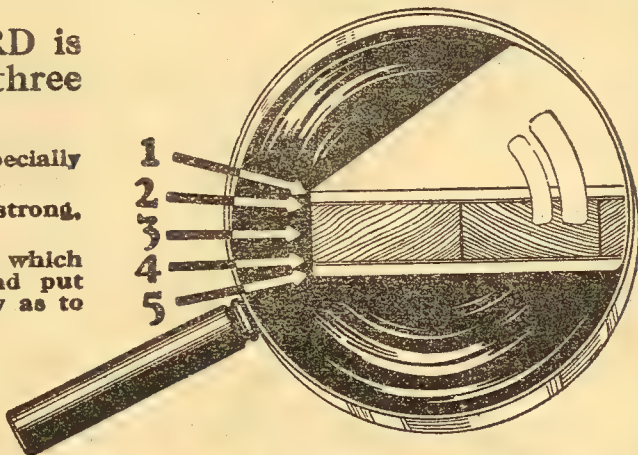
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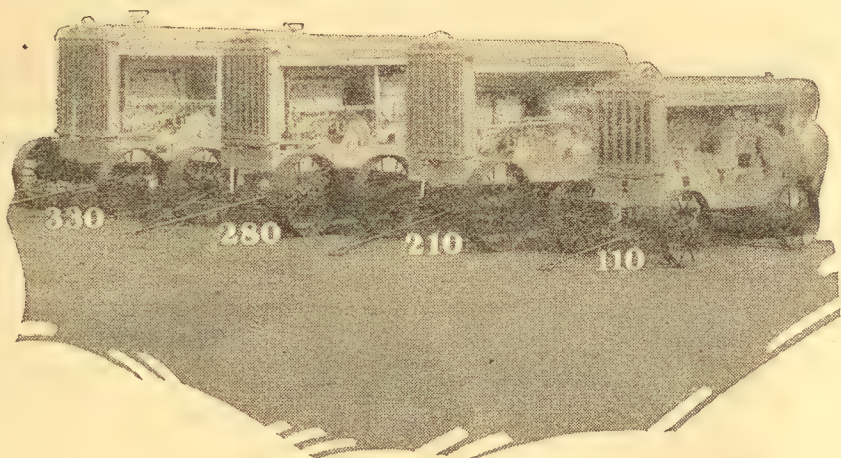
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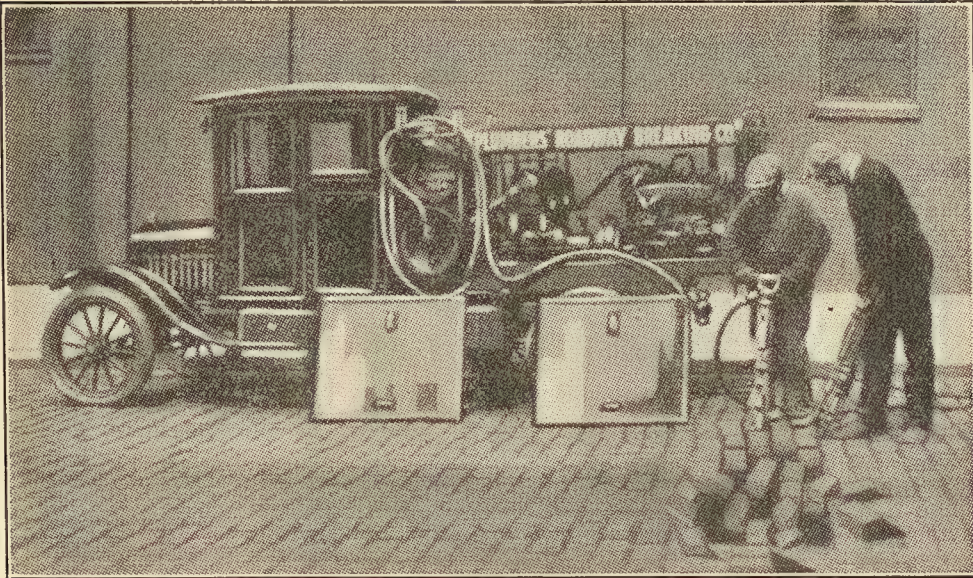
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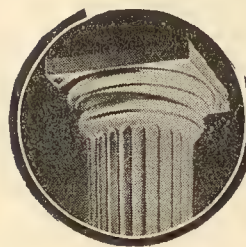
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 26

PHILADELPHIA
June 26, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Hotel Home, \$1,000,000 (The Mrs. Bertha Warneck Lewkowiez Memorial), Central Philadelphia. Work contemplated. Owners, Board of Trustees, consisting of Representative from the City Trustees, Cardinal of the Catholic Church, Leaders of the Jewish and Protestant Faith, care Corporate Trustees, Continental-Equitable Trust Company, Stephen Girard Building, Philadelphia. Donor, late Dr. Gabrielle Harrison, 2301 North Broad street, Philadelphia. Hotel for widows, etc.

Apartment House, Olney avenue, between Eighteenth and Nineteenth streets, Philadelphia. Plans in progress. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owner, Harry Rose, Southwest Corner Cresheim and Sedgwick avenue, Philadelphia. Brick, steel, 3 stories, 7 apartments, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, kitchen equipment, incinerators.

Residences (24), Ellett street, East of Sherman street, Chestnut Hill, Philadelphia. Plans in progress. Owner will be ready for sub-bids in one week. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Samuel Schlosberg, on site. Brick, 2 stories, 16 feet 5 inches x 71 feet, slag and slate roof, hardwood floors, hot water heat, electric light, metal lath, tile work, two-car basement garages.

Bank Building, Broad and Columbia avenue, Philadelphia. Plans in progress. Owners, Integrity Trust Co., Walter Hart, Sixteenth and Walnut streets, Philadelphia. Architect, Paul Cret, Otis Building, Philadelphia. Granite. Details undecided.

Apartment House, Torresdale, South of Friendship street, Philadelphia. Owner taking sub-bids. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owner, T. P. Reed, McClatchey Building, Upper Darby, Pa. Brick, 3 stories, 60x90 feet, 18 apartments, slag roof, hardwood floors, hot water heat, electric light, tile work, electric refrigeration, incinerators, kitchen and laundry equipment.

Residence and Garage, No. 481, Chestnut Hill, Philadelphia. Architects taking sub-bids. Architects, Wallace & Warner, Franklin Trust Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, hot water heat, electric light, tile work, hardwood floors.

Church (add.), Eleventh and Westmoreland streets, Philadelphia. Owners ready for bids. Architect, private plans. Owners, Pentecostal Mission, Rev. Benjamin H. Cox, 608 West Huntington street, William Ulary, Chairman of Building Committee, Keystone Spinning Mills, 1631 North Second street. Brick, 1 story, 35x35 feet.

Apartment House, Sixty-fifth avenue and Fifteenth street, Philadelphia. Owner taking sub-bids. Work to start soon. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owner, Harry Rose, Southwest Corner Cresheim and Sedgwick avenue, Philadelphia. Brick, steel, 4 stories, 235x86 feet, 64 apartments, slag roof, vapor vacuum heat, electric light, tile and marble work, hardwood floors, two elevators, refrigeration, kitchen and laundry equipment, incinerators.

Post Office, \$28,000. Location withheld, South Philadelphia. Plans ready about July

10th. Architect, Louis Manfredi, 2228 Mifflin street, Philadelphia. Lessees, United States Government, J. A. Wetmore, Treasury Department, Washington. Brick, steel, 1 story, 55x100 feet, maple floors, metal ceilings, hot water heat, electric light, waterproofing and dampproofing, cast stone, steel lockers, inspectors' gallery.

Warehouse (alts. and add.), 1216-18 Cherry street, Philadelphia. Engineer taking bids due July 2nd. Engineer, M. A. Webster, 1600 Arch street, Philadelphia. Owners, F. W. Potts Sons & Co., Inc., on premises. Brick, steel, 2 stories and basement, 66x34 feet, slag roof, concrete roof deck, concrete and plank floors, elevators, plumbing, steam heat, electric light, steel sash, fire doors, bond.

Church Building (alts. and add.), Southwest Corner Tenth and Wallace streets, Philadelphia. Architects taking bids due June 27th. Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, St. Paul's Baptist Church, Rev. E. V. Johnson, on premises. Demolition, excavation, brick work, cast stone, iron, steel, metal door frames, kalamein doors, cement work, metal lath, plastering, art marble, composition floors, plumbing, painting, glazing, hot water heat, hardware, asphalt built-up roof, hollow metal windows.

Boiler House (alts. and add.), 346 East Walnut lane, Philadelphia. Architects taking bids due June 27th. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, E. F. Griffiths Co., on premises. Brick, steel, 2 stories, 16-42 feet, slag roof, cement floors, rolling steel sash, ornamental iron work, retaining walls.

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Building, \$4,000. 6005 North Camac street, Philadelphia. Owner taking bids. Architect, Louis Manfredi, 2228 Mifflin street, Philadelphia. Owner, Ralph Appleung, 631 Addison street, Philadelphia. 3 stories, 16x60 feet, slag roof, electric light.

Addition, Ninth and Girard avenue, Philadelphia. Owners taking bids due June 27th. Engineer, A. E. Bump, care of Swift Co., Boston, Mass. Owners, Swift & Co., W. Robinson, on premises. Brick, reinforced concrete, steel, 3 stories and basement, 94x151 feet, Barrett specification roof, concrete roof deck, concrete brick floors, hollow tile, safety treads, metal window guards, steam heat, electric light, metal lath, tile work, rolled steel sash and skylight, floor hardener, ornamental iron work, steel partitions, cork insulation, roof insulation, plastering, carpentry and mill work, painting, glazing, hardware, overhead trackage system, sheet metal work, coal chute, plumbing.

Sales and Service Building, Lancaster avenue, Bryn Mawr, Pa. Architects will build. Work to start at once. Architects, Whelan, Halphen & Co., 613 Witherspoon Building, Philadelphia. Owners, Madden's Garage, Bryn Mawr, Pa. Brick, steel, 1 story, 65x125 feet, slag roof, cement floors, metal lath, tile work, iron work.

Store (alts.), Southwest Corner Sixty-seventh and Elmwood avenue, Philadelphia. Architects taking bids due June 28th. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owner, B. H. Wachs, 5405 Woodcrest street, Philadelphia. Demolition, excavation, concrete, cement, brick, steel, miscellaneous iron work, mill work, roofing, painting, glazing, plastering, metal ceilings, plumbing, tile work, electric work, hot water heat.

Residences (2), \$6,000 total. East side Edgemont street, North of Alresford road, Philadelphia. Permit issued. Architect, private plans. Owner, Vincent Lutvinas, 2649 Eddington street, Philadelphia. Brick, 2 stories, 16x22 feet, 18x27 feet, slag roof, hot water heat, electric light.

Filter Building, \$9,000. Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Architect, private plans. Owners, Gulf Refining Co., Girard Point, Philadelphia. Brick, 1 story, 61x61 feet, slag roof, cement tile roof.

Apartment House, \$300,000. Oxford avenue, Fillmore to Harrison street, Philadelphia. Permit issued. Architect, G. Harold Murphy, Frankford and Orthodox streets, Philadelphia. Owners, Bee-Bee Construction Co., 1106 Fox Building, Philadelphia. Brick, 4 stories, 360x135 feet, slag roof, hardwood and pine floors, electric light, tile work.

Residences (35), \$123,500. North side Cott-

man street, East of Jackson street, Philadelphia. Permit issued. Architect, private plans. Owners, Parkman Developing Co., Cottman and Jackson streets, Philadelphia. Brick, 2 stories, 15x31 feet, 12x13 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (2), \$8,000. North side Gilham street, East of Hasbrook avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Joseph O'Vary, 7224 Oakley avenue, Philadelphia. Brick, 2 stories, 15x44 feet, slag roof, hot water heat, electric light.

Bridges, \$700,000; Street Openings, \$111,300. Improving Thirty-third Ward, Philadelphia. Work contemplated. Owners, City of Philadelphia, Bureau of Engineering and Survey, City Hall Annex, Philadelphia. Bridges over railroad, D street, between Erie and Tioga; B street, between Erie and Venango; L street, between Kensington and Sedgley; Wingohocking, Third and Rising Sun; over Frankford Creek on Leiper street, between Abbotts avenue and C street; Castor or N street, between Cayuga and Wyoming. Opening and Paving of Streets: Venango, Mascher to Howard; J street, Erie to Sedgley; Castor or N street, Cayuga to Wyoming; Whitaker, from Hunting Park to Cayuga; C, Whitaker to Cayuga street; Wingohocking, Rising Sun to Lee street.

Contract No. 301. Subway on Ridge avenue, between Eighth street and Broad street, Philadelphia. Owners taking bids due July 19th, 11 A. M. (Eastern Standard Time). Owners, Department of City Transit, Thirteenth Floor, City Hall Annex, Philadelphia. Deposit, \$50, refunded. Certified check, \$100,000, for bids from \$2,500,000 to \$5,000,000; check \$300,000 for \$5,000,000 or over. Attention is called to special notice to builders on pages 3 and 15 of specifications.

Miscellaneous Work, Philadelphia. Owners taking bids due July 2nd at noon at 216 City Hall, Philadelphia. Owners, Bureau of Street Cleaning, 919 City Hall Annex, Philadelphia. A: repair to pre-heaters, Bartram, Inc., Fifty-first and Gray's avenue; furnish and install smoke exhaust system in Bartram, Inc., Fifty-first and Gray's avenue, Philadelphia. Certified check, 5 per cent.

Miscellaneous Work (Sewers). Low bidders. Owners, Department of Public Works, Bureau of Engineering and Survey, City Hall, Philadelphia. G, Wyoming to Ramona, A. Frunzi, 513 High street, Philadelphia, \$6,979. Greenway, Fifty-ninth to Sixtieth street, Sabatini, Vallone & Co., 1720 South Chadwick street, \$3,425.50. Vernon road, Williams, Greenwood, Michner, etc., Vincent Centreseco, 6016 Ross street, Philadelphia, \$33,047. Hegerman, Ronnins, Northwest of Torresdale, etc., M. J. Driscoll, 100 Apsley street, Philadel-

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phia, \$29,751. Eightieth, Island avenue, Seventy-fifth avenue, Laycock avenue, etc., Thomas Burke Co., 1303 Widener Building, Philadelphia, \$235,386.90.

Bungalow, South side Murray street, west of Wistaria street, Philadelphia, \$6,000. Permit issued. Architect, private plans. Owners, Wakeling Const. Co., 322 E. Roosevelt Blvd., Philadelphia. Brick, 1 story, 20x47 feet, hardwood and pine floors, electric light.

Theatre and Stores, 8545 Frankford Ave., Philadelphia. Architect, Wm. H. Lee, 1505 Race street, Philadelphia. Owner, Home Realty Co., on premises. T. H. Gaglardi, 8119 Frankford Ave., taking sub-bids on marble.

Building, Stokley and Westmoreland Sts., Philadelphia. Work contemplated. Owner, Charles Kahn, southeast corner Seventeenth and Chestnut Streets, Philadelphia.

Hump Building, Terminal Yard, South Philadelphia, Pa. Owner taking bids due June 28th. Architect, Wm. H. Cookman, Broad street Station, Philadelphia. Owner, Penna. R. R., Broad street Station, Philadelphia. Brick, steel, 1 story, 83x18 feet, slag roof, cement floors, steam heat, electric light, plumbing, bond, ornamental iron work.

Factory (add.), Orianna and Willows Sts., Philadelphia. Architect taking approximate bids due June 27th. Architect, The Ballinger Company, Twelfth and Chestnut streets, Philadelphia. Owner, E. Hubschman & Sons Inc., on premises. Brick, reinforced concrete, steel, 3rd and 4th floor addition, 110x40 feet, slag roof, concrete floors, rolled steel sash, bond, ornamental iron work. Work contemplated.

Ward Building (alts.), Second and Luzerne streets, Philadelphia. Low bidders. Owners, Bureau of Health, 503 City Hall Annex, Mr. Seeds, Chief Clerk. Plumbing, roofing, painting, masonry work. Harry J. O'Brien & Co., 6635 Wayne avenue, Philadelphia, \$5,200. Plumbing, A. MacBride & Co., 1317 West Girard avenue, Philadelphia, \$4,550. Masonry, Charles J. Kappler, 556 Rising Sun avenue, \$2,390.

Fire House (alts.), Fiftieth and Willows avenue, Philadelphia. Low bidders. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia. General, E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia, \$18,391, \$4,000; S. Sidney Lewis, 121 North Broad street, Philadelphia, \$21,052, \$3,478. Heating, Fred Wackenhutt, 2416 Frankford avenue, \$2,035. Plumbing, Fred Wackenhutt, 2416 Frankford avenue, \$3,755. Electric, Industrial Elec. Co., 124 North Sixty-third street, \$1,016.

Fire House (alts.), Fourth and Snyder avenue, Philadelphia. Low bidders. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, City Hall, Philadelphia. General, Francis Mack, 117 South Forty-eighth street, Philadelphia, \$10,900; Man Camp Construction Co., 1033 Chestnut street, \$10,999. Heating, Joseph W. Breen, Wyalusing and Fallon streets, \$1,490. Plumbing, Bulman Brothers, Fifth and Cumberland streets, \$2,346. Electric, O. W. Lynch, 5743 Ogontz avenue, \$514.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory (alts. and add.), Percy and Green streets, Philadelphia. Contract awarded Farrell-Roth Construction Co., 21 South Forty-sixth street, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Atlas Electric Co., 916 Green street, Philadelphia. Brick, steel, 2 stories and basement, 60x20 feet, excavation, concrete and cement work, stone masonry, miscellaneous iron work, plastering, hardware, electric work, painting, glazing, terra cotta coping, rolled steel sash (Lupton, Detroit Steel or equal), metal lath, maple floors, composition floors, alterations to steam heat, slag roof, rolled steel skylights, plumbing, 51x76 feet.

Store Building and Service Station, Southeast Corner Broad and Cheltenham avenue, Philadelphia. Contract awarded George Kessler Contracting Co., 1733 North Marvine street. Architect, private plans. Owners, Felt Brothers, 1518 Walnut street, Philadelphia. Lessees, Star Lubricating Co., on premises. Brick, steel, 1 story, 18x50 feet, 13x50 feet, slag roof, cement floors, electric light, ornamental iron work.

Sales and Service Building, 1521-23-25-27 North Thirty-third street, Philadelphia. Builder taking sub-bids due as soon as possible. Contract awarded Stanley Construction Co., Real Estate Trust Building, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street,

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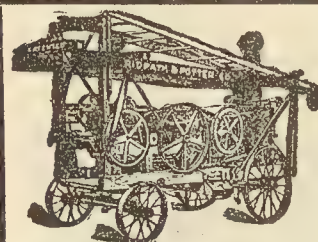
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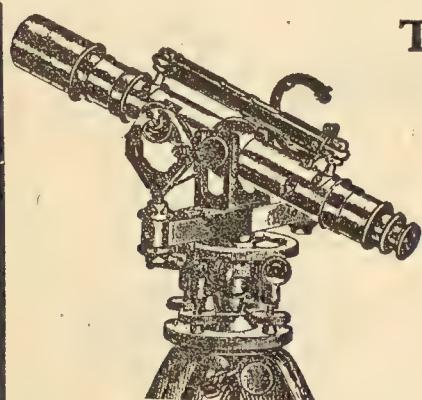
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Philadelphia. Owner, Samuel S. Lear, 720 Wolf street, Philadelphia. Lessees, Eaton Bumper & Spring Service Co., 237 North Twenty-second street, Philadelphia. Brick, steel, 1 story and basement, 72x170 feet, slag roof, cement floors, plumbing, unit heat, electric light, rolled steel sash. (Note changes.)

Show Room and Office, Broad and York road, Philadelphia. Contract awarded Bowden Construction Co., 1607 Summer street, Philadelphia. Architect, Charles M. Talley, Telford, Pa. Owners, Industrial Trust Co., 1944 North Front street, Philadelphia. Brick, limestone, steel, 1 story and basement, 50x100 feet, slag roof, cement and oak floors, plumbing, steam heat, electric light, tile work, metal lath, ornamental iron work.

Telephone Exchange (alts.), 7254 Rising Sun avenue, Philadelphia. Contract awarded F. W. Van Loon, Perry Building, Philadelphia, \$7,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Nineteenth and Arch streets, Philadelphia. Carpentry and mill work, plastering, cement and concrete work.

Packing Plant, \$150,000. Darien and Willow streets, Philadelphia. Contract awarded Barclay White Co., 22 North Thirty-sixth street, Philadelphia. Engineers, Henschein & McLanen, 1637 Prairie avenue, Chicago, Ill. Owners, John Morrell & Co., 816 Noble street, Philadelphia. Brick, steel, concrete, 3 stories and basement, 50x38 feet, slag roof, cement floors.

Office (alts. and add.), 1604 Pine street, Philadelphia. Contract awarded E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia. Architects, Tunis & Baker, 1600 Arch street, Philadelphia. Owner, Dr. T. G. Schnable, on premises. Carpentry and mill work, plastering, painting, glazing, electric work, general interior alterations.

Shop (alts. and add.), 52 West Cheltenham avenue, Philadelphia. Contract awarded Joseph E. Foster, 4938 North Smedley street, Philadelphia. Architect, Paul M. Hesser, 225 East Washington Square, Philadelphia. Owner, Joseph Farris, 60 West Cheltenham avenue, Philadelphia. Interior and exterior alterations, carpentry, mill work, electric work.

Building (alts.), Thirteenth and Spring Garden streets, Philadelphia. Contract awarded Henry C. Dahl, 231 South Eighth street, Philadelphia. Architect, John J. Carlin, Drexel Building, Philadelphia. Owners, Joseph Adams & Son, 1340 Spring Garden street, Philadelphia. Slag roof, linoleum, composition floors, carpentry and mill work, steam heat, electric work, tile work, iron work, hardware, plastering, painting.

Service Station, Broad and Bott streets, Philadelphia. Contract awarded George H. Evans, Inc., 1416 Vine street, Philadelphia. Architects, Office of Construction Department, Crew Levick Co., 219 North Broad street. Owners, Crew Levick Co., Mr. Perkins, 219 North Broad street, Philadelphia. Brick, hollow tile, stucco, 1 story, 13x16 feet, slate roof, cement floors, plumbing, hot water heat, electric light, metal lath, bond.

Residence, near Narberth, Pa. Contract awarded Metzger & Co., Otis Building, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Dr. Russell S. Boles, Fifty-third and Overbrook avenue, Philadelphia. Stone, 2½ stories, 28x128 feet, slate roof, hardwood floors, vapor heat, electric light, 6 tile baths, steel sash.

Residence and Garage, Crefelt street, opposite Fairmount Park, Chestnut Hill, Pa. Contract awarded John E. Walt, 204 East Willow Grove avenue, Philadelphia. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, L. Fuller Parsley, 1412 Chestnut street, Philadelphia.

Church (add. and alts.), \$20,000. East side Forty-fifth street, North of Fairmount avenue, Philadelphia. Contract awarded J. G. Patterson, 2114 Lombard street, Philadelphia. Owners, White Rock Baptist Church, on premises. Brick, 2 stories add., 39x12 feet, general alterations.

Store, \$4,000. 6202-04 Elmwood avenue, Philadelphia. Contract awarded David Goldman, 5376 Montgomery avenue, Philadelphia. Owner, S. K. Allman, Finance Building, Philadelphia. Brick, 1 story, 32x80 feet, electric light.

Bank (add.), \$4,000. 6062 Ridge avenue, Philadelphia. Contract awarded E. L. Cuthbertson, 334 Roxborough avenue, Philadelphia. Owners, Manayunk Trust Co., 4340 Main street, Philadelphia. Brick, 1 story add., 19x19 feet.

Residence and Garage (add.), \$2,500. 903 West Roosevelt Boulevard, Philadelphia. Contract awarded William F. Lotz, Oxford Bank Building, Philadelphia. Owner, Allen Anderman, 903 West Roosevelt Boulevard, Philadelphia. Brick, 1 story, 22x23 feet, slag roof, cement and pine floors.

Bank and Office (alts.), \$20,000. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia. Owners, Real Estate Trust Company, Broad and Chestnut streets, Philadelphia. General alterations.

Store (alts.), \$2,000. 1812-14 Chestnut street, Philadelphia. Contract awarded Ramos

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& Wiggins, 851 South Fifty-sixth street, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, Aaron Sosenko, 642 Park avenue, Drexel Hill, Pa. General alterations.

Club (add.), \$9,000. Northwest Corner Mannheim and Morris streets, Philadelphia. Contract awarded Robert E. Lamb, 843 North Nineteenth street, Philadelphia. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owners, Germantown Cricket Club, on premises. Brick, 1 story add., 40x46 feet, carpentry, mill work, hardware, plastering, iron work, painting, glazing.

Store (alts.), \$6,000. Eighth and Market streets, Philadelphia. Contract awarded William Linker Co., 735 Cherry street, Philadelphia. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. Alterations for escalator.

Residence, \$5,000. Southwest Corner Randolph and Fitzwater streets, Philadelphia. Contract awarded Daniel Vecchioli, 2035 Ritten street, Philadelphia. Architect, private plans. Owner, Michael Bruno, 512-14 Fitzwater street, Philadelphia. Brick, 2 stories, 34x30 feet, 13x23 feet, hot water heat, electric light.

Residence (alts.), \$2,000. 413 Pine street, Philadelphia. Contract awarded J. Daley, care of architect. Architect, David Supowitz, 260 South Fifteenth street, Philadelphia. Owner, Lewis M. Brown, 347 South Fourth street, Philadelphia. General alterations.

Coal Pockets, \$20,000. Northwest Corner Jamestown and Cresson streets, Philadelphia. Contract awarded Jaffola & Mark, Levering and Cresson streets, Philadelphia. Architect, private plans. Owners, Hare & Cote, on premises.

Residences (4), \$17,000. East side Silverwood street, West of Wright street, Philadelphia. Contract awarded Mose Pepera, 4545 Mitchell street, Philadelphia. Architect, private plans. Owner, Annie Merket, 300 Hermitage street, Philadelphia. Brick, 2 stories, 15x27 feet, 11x9 feet, hot water heat, electric light, hardwood and pine floors, slag roof.

Auto Show Room, \$15,000. Southwest Corner Fifth and Tabor road, Philadelphia. Contract awarded Supper & Foster, 5440 North Mascher street, Philadelphia. Architect, private plans. Owner, Katie Pries, 528 Chew street, Philadelphia. Brick, one story, 51 feet 6 inches x 70 feet, slag roof, cement floors, electric work.

Factory, \$8,500. Northeast Corner Fifty-first and Botanic avenue, Philadelphia. Con-

tract awarded Maryland Metal Building Co., Baltimore, Md. Architect, private plans. Owners, Mt. Gretna Brownstone Co., Lebanon, Pa. Structural steel, 1 story, 60x74 feet.

Tank, \$6,500. Southeast Corner Water and Wolf streets, Philadelphia. Contract awarded Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa. Architect, private plans. Owners, Pottash Brothers Co., Inc., on premises.

Residence and Store (alts.), \$2,000. 1802 North Broad street, Philadelphia. Contract awarded Frank Nisko, 333 Monroe street, Philadelphia. Architect, private plans. Owner, M. G. Ord, on premises. General alterations.

Warehouse, 4319-21-23-25 North Lawrence street, Philadelphia, \$16,000. Contract awarded Wm. M. Benner, Hatboro, Pa. Architect, private plans. Owner, Charles Schrammer, 4326 North Fourth street, Philadelphia. Brick, 2 stories, 56x96 feet, slag roof, electric light.

Sales and Service Station, 4227 Chestnut street, Philadelphia. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia. Architect, Philip S. Tyre, 114 South Fifteenth Street, Philadelphia. Owner, West Philadelphia Motor Company, on premises. Brick, limestone, steel, 2 stories and basement, 65x215 feet, slag roof, cement floors, steam heat, electric light, tile work, metal lath, bond, noramental iron work.

Buildings, Fifty-eight and Schuylkill Ave., Philadelphia. Contract awarded Turner Const. Co., 1700 Walnut street, Philadelphia. Architect, Purchasing Agent, Vacuum Oil Co., 61 Broadway, New York. Owner, Vacuum Oil Co., 61 Broadway, New York. Brick, steel, slag roof, cement floors, ornamental iron work, Office Building, 1 story, 61x42 feet, Garage, 33x133 feet, 1 story Warehouse, 50x130 feet, 1 story Power House, 34x25 feet, Loading Pack, 1 story, 25x31 feet.

Residence (alts. and add.), 131 Pelham Rd., Germantown, Philadelphia. Contract awarded Harry L. Watson, Stanwood and Ferndale streets, Philadelphia. Architect, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, A. C. Jackson, 6445 Greene street, Philadelphia. Brick, concrete block, iron, steel carpentry and millwork, plastering, hardware, hot water heat, electric light, plumbing, painting, glazing, tin roof.

Henry L. Reinhold, Jr., Architect, formerly of 1632 Walnut Street, Philadelphia, announces the removal of his offices to 10 South Eighteenth Street, Philadelphia.

L. R. Malatesta, Architect, has moved from 26 South Sixteenth Street, Philadelphia, to Twenty-sixth and Wharton Streets, Philadelphia.

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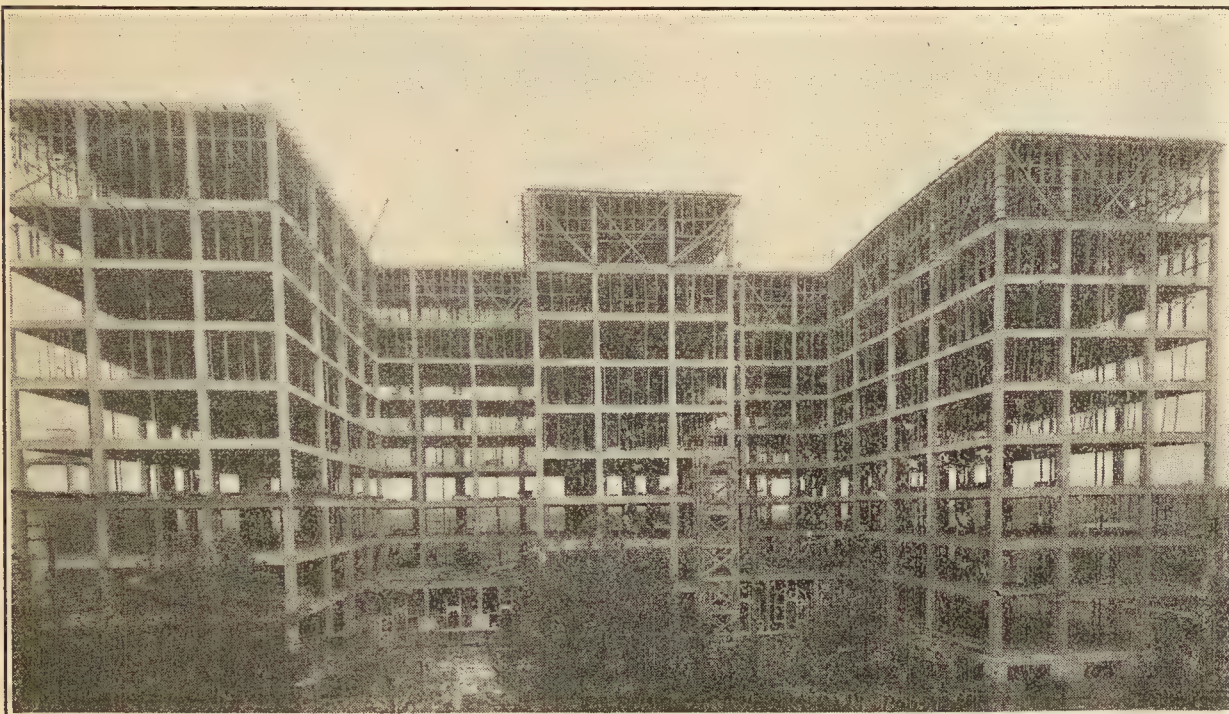
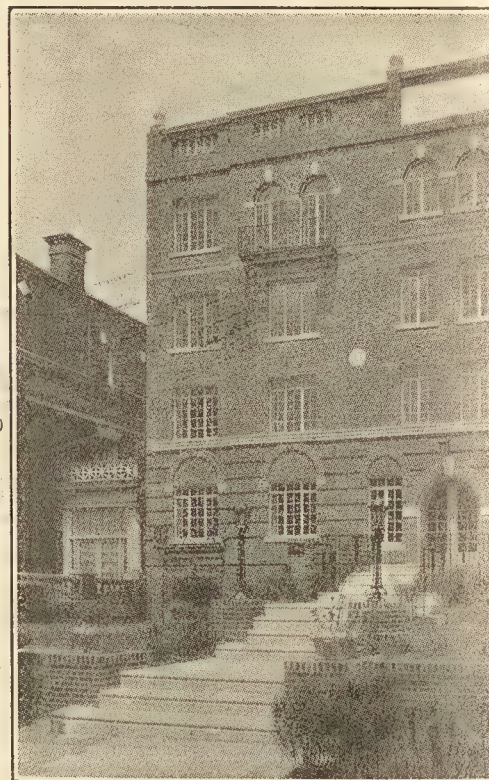
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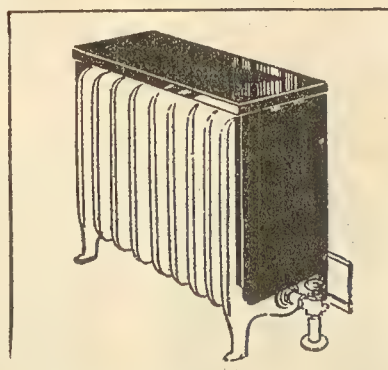
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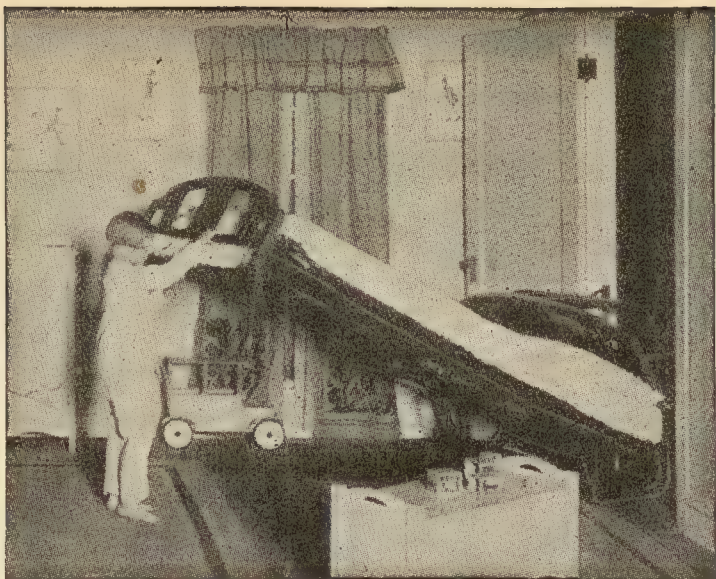
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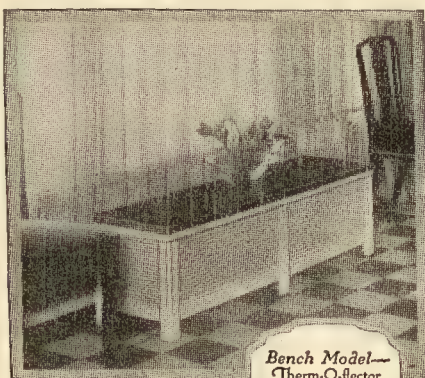
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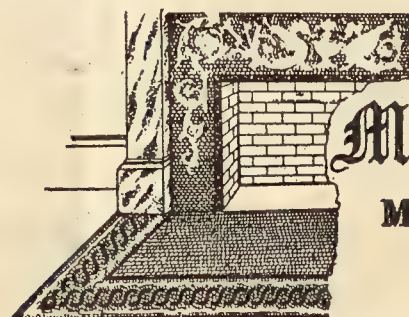
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Pennsylvania Construction News

New Power Plant, Schuylkill Haven, Pa. Owner taking bids due in Town Hall, Schuylkill Haven, Pa., Roy A. Scott, Chief Burgess, July 8th, 7 P. M. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owner, Borough of Schuylkill Haven, J. A. Harmer, Schuylkill Haven, Pa.

School Building, South Langhorne, Pa. Owner taking bids due June 28th. Architect, Henry L. Reinhold, Jr., 10 South 18th st., Philadelphia. Owner, School District of South Langhorne, Bucks Co., Pa.

Country Club, Reading, Pa. Architect will be ready for bids in about six week or two months. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading Country Club, Philadelphia Road, Reading, Pa.

Garage, Blackberry street, Harrisburg, Pa. \$200,000. Plans in progress. Architect, W. W. Witman, Keystone Building, Harrisburg, Pa. Owners, E. G. Slabach, 701 North Sixth street, Harrisburg, Pa. Fireproof, 4 stories, ramp.

Theatre, Stores and Apartments, Pottstown, Pa. Architect taking bids due as soon as possible. Architect, Henry Reinhold, 10 S. 18th Street, Philadelphia. Advisory Architect, W. Ellis Groben, 1051 69th Avenue, Philadelphia. Owner, St. Clair Corp., 402 Dekalb street, Norristown, Pa. Brick, reinforced concrete, limestone, steel, 3 stories and basement, 125x180 feet, slag roof, cement, oak and pine floors, metal lath, tile work, bond, ornamental iron work.

Store and Apartment, Lansdale, Pa. Architect taking bids due July 1st. Architect, Franklin & Conner, Lansdale, Pa. Owner, Samuel Fruit, Lansdale, Pa. Brick, steel, 3 stories and basement, 50x100 feet, slag roof, oak and pine floors, metal lath, tile work, bond, ornamental iron work.

Hospital, Coatesville, Pa. Architect, U. S. Veterans' Bureau, L. H. Tripp, Washington, D. C. Owner, U. S. Veterans' Bureau, Arlington Building, Washington, D. C. Reinforced concrete, brick, steel, 10 buildings. Low bidders: A. C. Sanford, Montgomery, Ala., \$786,100; Algernon Blair, Montgomery, Ala., \$787,000; Jones Redditt, McClatchey Building, Upper Darby, Pa., \$835,000; Plumbing: B. Grunwald, Omaha, Neb., \$116,000; M. H. Pagenhardt, 2130 Locust street, Philadelphia, \$120,006; Heating: J. L. Powers, Bennellsville, S.

C., \$71,772; B. Grunwald, Omaha, Neb., \$76,000; Electric: Keystone Engr. Co., 335 Walnut street, Reading, Pa., \$47,500; Erickson Engineering Co., 452 Lexington Ave., New York, \$48,364; Elevators, Marsh Elevator Co., Baltimore, Md., \$15,738; Refrigeration, York Ice Machinery Co., Belmont and Thompson Sts., Philadelphia, \$20,384.

Buildings (3), Penhurst, Pa. Plans in progress. Architect, H. W. Castor, Stephen Girard Building, Philadelphia. Owners, Penhurst State School, Board of Trustees, J. Hibbs Buckman, Plaza Trust Building, Philadelphia. Brick, stone.

Airplane Hangers, Honesdale, Pa. Plans in progress. Engineers, Austin Co., 1015 Chestnut street, Philadelphia. Owner, S. G. Mather, Honesdale, Pa. Steel, 1 story.

Home Economics Building, State College, Pa. Plans completed. Ready for bids in one week. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, State College, R. B. Hetzel, president, on premises. Brick, steel, stone.

Mining Building, State College, Pa. Plans about completed. Will be ready for bids in 3 weeks. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, State College, R. B. Hetzel, president, on premises. Brick, stone, steel, 3 stories.

Service Station and Residence, Spry, York County, Pa. Plans in progress. Architect will be ready for bids at end of week. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, M. Liverant, care of architect. Stucco, concrete block, 2 stories, 26x26 feet, tile and composition roof, concrete and yellow pine floors, hot air heat, electric work.

Residence, Division and Front streets, Harrisburg, Pa. Plans in progress. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, E. R. Eckenrode, care of architect. Stone, timber, 2½ stories, 30x35 feet, slate roof, hardwood floors, vapor heat, electric light, tile work.

Business Building, Glenside, Pa. Plans about completed. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Harrison Brothers, Ardmore, Pa. Brick, 2 stories, 40x100 feet.

Grade School (alts.), \$4,000. Gouldsboro, Wayne County, Pa. Plans in progress. Owners, Lehigh Township School District, C. J. Surplus, secretary, Gouldsboro, Pa. General alterations.

Office, 31-33 Beaver street, York, Pa. Preliminary plans in progress. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Own-

ers, York County Telephone & Telegraph Co., B. B. Rudy, 31 Beaver street, York, Pa.

Schools (14) (alts.), Reading, Pa. Preliminary plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Reading School Board, Oscar B. Heim, secretary, Fifth and Washington streets, Reading, Pa. Fire escapes and various operations.

Junior and Senior High School, Royersford, Pa. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford School Board, Mrs. M. Latshow, secretary, Royersford, Pa. Fireproof, brick, steel, concrete, 2 stories, 225x60 feet, built-up roof, linoleum or concrete floors, hollow tile, waterproofing and dampproofing, cast stone, iron stairs, skylights, steel sash (heating, plumbing and electric separate).

Grade School (add.), Royersford, Pa. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford School Board, Mrs. M. Latshow, secretary, Royersford, Pa. Brick, 1 story, 6 rooms, built-up roof, pine floors (electric work separate).

Residence and Garage, Merion Golf Manor, Pa. Plans completed. Owners will be ready for bids in a few days. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, William H. Wilson Co., 1617 Walnut street, Philadelphia. Stone, 2½ stories, frame, shingle roof, hardwood floors, electric light, tile work.

Store (alts. and add.), Bethlehem, Pa. Architect ready for bids. Architect, D. L. Warner, 203 West Fourth street, Bethlehem, Pa. Owner, A. Refowich, care of architect. Store front, hardwood floors, architectural terra cotta, tile, marble, ornamental iron work.

Church (superstructure), Twenty-second and Edgemont streets, Chester, Pa. Architects, Office of J. B. Thompson, 1321 Arch street, Philadelphia. Owners, Nativity Lutheran Church, A. R. Cochran, 173 East Mowry street, Chester, Pa. Brick, cast stone, steel, 1 story, 50x60 feet, slate roof, maple floors, steam heat, electric light, plumbing. Architects will be ready for bids in two weeks.

Operation of Residences, Chester, Pa. Owner ready for sub-bids. Plans may be seen and bids sent to 2002 Snyder avenue, Philadelphia. Architect, N. G. Gallucci, 1506 Locust street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, cement work, garages in basements, hot water heat, electric light, metal lath, tile work.

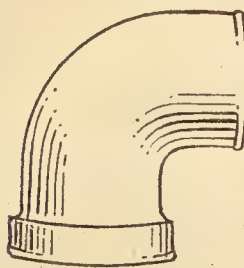
School (add.), Frackville, Pa. Owner about ready for bids. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Joseph's Roman Catholic Church, Rev. M. L. Killian, Frackville, Pa. Brick, 3 stories, 50x17 feet, composition roof, concrete and asphalt floors, electric light, plumbing, steel sash, iron stairs.

Residence and Garage, Drexel Park, Pa. Owner will build and is taking sub-bids. Architect, C. J. Cumiskey, 86 West Sharpnack street, Philadelphia. Owner, W. L. Davenport, 1519 North Fifty-eighth street, Philadelphia. Stone, 2½ stories, 30x55 feet, hot water heat, electric light, tile work, hardwood floors.

Store and Apartment Building, \$12,000. Pottstown, Pa. Architect will be ready for bids in about two weeks. Architect, A. S. Kepner, 121 North Hanover street, Pottstown, Pa. Owner, A. B. Siesholtz, 116 South Hanover street, Pottstown, Pa. Brick, 2½ stories, 37x50 feet, tin and slate roof, plate glass, conner work, vapor or hot water heat.

Store and Apartment Building (alts.), \$8,000. 114 South Hanover street, Pottstown,

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Pa. Owner will be ready for bids in about two weeks. Architect, A. S. Kepner, 121 North Hanover street, Pottstown, Pa. Owner, Lester R. Daub, on premises. Brick, 2 stories and basement add., general interior alterations, new front.

Airport, New Cumberland, Pa. Owners will soon take bids. Engineers, The Austin Co., Cleveland, Ohio. Owners, Harrisburg Airport Corporation, R. A. Robbins, Jr., president, Yoffee Building, Market Square, Harrisburg, Pa.

School, Green Lane and Marlborough, Montgomery County, Pa. Owners about ready for bids. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Joint School Board, Montgomery County, A. H. Van Fossen, secretary, Green Lane, Pa. Brick, steel, 1 story, 6 rooms, built-up roof, pine floors (heating, plumbing and electric work separate), steel sash, bond.

Residence, Second street, Harrisburg, Pa. Architect about ready for bids. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, F. S. Cornwell, care of architect. Stone, 2½ stories, 3x25 feet, shingle roof, hardwood, concrete and tile floors, hot water heat, electric light, tile, flagstone.

School (alts.), Northampton, Pa. Owners taking bids due June 29th at noon. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owners, Our Lady of Hungary Roman Catholic Church, Rev. P. J. Repchik, Northampton, Pa. Brick, stone, composition roof, asphalt floors, electric light, new plumbing.

Comfort Stations (2), Concession Office, Secretary's Office and Ticket Office, Reading, Pa. Architect taking bids due July 1st at 9 A. M. Architect, Calvin James Young, 226 North Sixth street, Reading, Pa. Owners, Reading Fair Co., A. Deysher, 522 Court street, Reading, Pa. Frame and cinder block, 1 story, 20x20 feet, 14x16 feet, 20x30 feet, 8x10 feet, asbestos shingle roof, pine floors, concrete floors, electric light, steel sash.

School, Second avenue and Fayette street, Conshohocken, Pa. Architect taking bids due July 1st at noon. Architect, George I. Lovatt, 220 South Sixteenth street, Philadelphia. Owners, St. Matthew's Roman Catholic Church, Rev. P. J. Gallagher, on premises. Stone, east stone, steel, 2 stories and basement, 100x120 feet, slate roof, cement and oak floors, metal lath, tile and terrazzo work, rolled steel sash, fire and kalamein doors, bond, ornamental iron work, cinder concrete block, casement windows, waterproofing, flagstone, leaded glass, painting, glazing, vitrolite, oak floors, linoleum floors, reinforced concrete work, gypsum blocks.

Sunday School, \$50,000. Bloomsburg, Pa. Owners taking bids due July 5th. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Bloomsburg Reformed Church, Rev. J. C. Baunbach, 115 East Third street, and Mr. Zehner, both Bloomsburg, Pa. Stone, 2 stories and basement, slate roof, maple floors.

Sunday School (add.), Waynesboro, Pa. Architect taking bids due June 27th at noon. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Lutheran Church of Waynesboro, Rev. Dr. Travis, Waynesboro, Pa. Brick, stone, 2 stories and basement, 80x150 feet, slag roof, wood floors, electric light, tile work, brownstone, soundproofing.

Residence and Garage, Shippensburg, Pa. Architect taking bids due June 29th. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, C. Naugle, Shippensburg, Pa. Stone, 2½ stories. 61x30 feet, slate and tile roof, hardwood and concrete floors, vapor

heat, electric light, oil burners, tile and marble, flagstone, east stone.

New Power Plant Building, Schuylkill Haven, Pa. Owners taking bids due in Town Hall, Schuylkill Haven, Pa.; Roy A. Scott, Chief Burgess; July 8th, 8 P. M. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Borough of Schuylkill Haven, Jere A. Harmer, chairman, Schuylkill Haven, Pa. Brick, steel, concrete, 1 and 2 stories and basement, 102x38 feet, wing 48x63 feet, asbestos built-up roof, concrete floors, rolled steel sash, roof ventilators. Plans and specifications may be obtained from Secretary John H. Betz, Schuylkill Haven, Pa. Deposit, \$10, refunded. Certified check or bond, 10 per cent. of the bid. Bond, excavation, demolition, concrete floors, hardware.

Residence and Garage, Black Rock road, Bryn Mawr, Pa. Owner taking bids due June 29th. Architect, John W. Ames, 148 State street, Boston, Mass. Owner, Francis H. Bohlen, Wayne, Pa. Stone, 2½ stories and basement, 90x30 feet, slate and copper roof, oak and pine floors, bond, ornamental iron work.

Church, Lansdowne, Pa. Architect taking revised bids due June 29th. Architect, C. P. Berger, 1512 Walnut street, Philadelphia. Owners, St. Paul's Lutheran Church, Lansdowne, Pa. Stone, steel, 1 story, 80x45 feet, asbestos shingle roof, cork tile and maple floors, steam heat, electric light, metal lath, bond, ornamental iron work.

Residence and Garage, Haverford and Lancaster avenues, Rosemont, Pa. Harmer Construction Co., 5124 Hadfield street, Philadelphia, will build and is ready for sub-bids. Architect, Charles H. Schaef, 11 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 2½ stories, 30x40 feet, 18x24 feet, wood shingle roof, hardwood floors, cement work, hot water heat, electric light, tile work.

Residence (int. alts.), Haverford and Lancaster avenues, Rosemont, Pa. Harmer Construction Co., 5124 Hadfield street, Philadelphia, will build and is ready for sub-bids. Architect, Charles H. Schaef, 11 South Sixteenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, hot water heat, electric light, hardwood floors, interior decorating, mural decorating, colored tile baths and kitchen, plumbing, plumbing fixtures, carpentry and mill work, painting, glazing, plastering.

Residence and Garage, Wayne, Pa. Harmer Construction Co., 5124 Hadfield street, Phila-

delphia, will build and will be ready for bids July 1st. Architect, Charles H. Schaef, 11 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 2½ stories, 30x40 feet, 18x24 feet, wood shingle roof, hardwood floors, cement work, hot water heat, electric light, tile work.

Athletic Field, \$40,000. Coal Township, near Shamokin, Pa. Owners taking bids due July 1st at 7.30 P. M. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Coal Township School Board, William Ryan, secretary, 1557 Oneida street, Shamokin, Pa.

Supplies, Chester, Pa. Owners taking bids due July 8th. Owners, School District of Chester, C. E. Sanderson, Larkin Building, Chester, Pa. Mechanical drawings, lumber, paints, tools, etc., for vocational and manual training schools; lumber, paints, oils, etc., for general repair shop.

Supplies, Ridley Park, Pa. Owners taking bids due July 5th, 8 P. M. (Eastern Standard Time). Owners, School District of Borough of Ridley Park, H. N. Davis, Tome Street School, Ridley Park, Pa. Laboratory and other school supplies and furniture.

Framing, State Fish Hatchery, Tionesta, Pa. Owners taking bids due July 5th, 2 P. M. (Eastern Standard Time). Architect, private plans. Owners, State Board of Fish Commission, care of B. E. Taylor, Secretary, Department of Property and Supply, Harrisburg, Pa. Bond. Certified check, 5 per cent.

Highway Bridge, West Union street, Allentown, Pa. Work contemplated. Owners, City of Allentown, O. A. Schmidt, Clerk, City Hall, Allentown, Pa. Architect, private plans.

Road Work, Pennsylvania. Low bidders. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Capitol Building, Harrisburg, Pa.

Erie County, R-85, 86, Springfield Township. One course reinforced concrete, dual

Allegheny County, R-76, Sec. 4, Corapolis ships. One course reinforced concrete. E. H. Borough, Robinson, Kennedy and Moon Town-Canon, Pittsburgh, Pa., \$275,973.29.

type construction. Clements Orr Co., Mt. Gilead, Ohio, \$138,141.15.

Lebanon County, R-140, Sec. E-1, Union Township. One course reinforced concrete. D. L. Risser, Lebanon, Pa., \$15,608.90.

Fayette County, R-50, Sec. 1, Wharton, North Union and South Union Townships. One course reinforced concrete and bituminous surface treated macadam surface course. J.

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PHILADELPHIA, PA.

F. Patterson, trading as Donora Construction Co., Donora, Pa., \$555,489.82.

Northumberland County, R-1, A-5034, Lower and Upper Augusta Townships. One course reinforced concrete. J. M. Hutchinson & Narehood Brothers, Altoona, Pa., \$106,247.46.

Washington County, R-113, Sec. 8, R-268, Sec. 8A, East Pike Run Township, Centerville Borough. One course reinforced concrete. Dorsey Construction Co., Findlay, Ohio, \$191,559.30.

Indiana County, R-63, Sec. 4, Rayne Township. One course reinforced concrete. A. F. Moreau, Indiana, Pa., \$20,299.27.

Northumberland County, R-182, Gearhart, Rush and Ralpho Townships. One course reinforced concrete. F. D. Kesler, Northumberland, Pa., \$446,771.86.

Lehigh County, A-6217, Hanover Township. One course reinforced concrete. George Hardner, Lentz Building, Allentown, Pa., \$60,566.80.

Warren County, R-89, A-5547, Eldred, Deerfield and Pittsfield Townships. One course reinforced concrete, grading and drainage. Kirkpatrick-Wallis Co., Johnsonburg, Pa., \$117,516.24.

Allegheny County, R-70, 4, B1, A-4358, 3758-A, Harmar Township. One course reinforced concrete. Frank S. Tillman & Co., Tarentum, Pa., \$39,188.82.

Lycoming County, R-20, Sec. 8, Lewis and McIntyre Townships. One course reinforced concrete. O. P. Bell, Sunbury, Pa., \$268,235.97.

Delaware County, R-133, Upper Darby Township, Millbourne Borough. One course reinforced concrete. F. Gillespie, Clifton Hights, Pa., \$27,727.73.

Clearfield County, R-57, Sec. 2, Decatur Township, Chester Hill Borough. One course reinforced concrete. Cooper Construction Co., Clymer, Pa., \$202,777.84.

Road Work, Pennsylvania. Low bidders. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Blair County, R-53, S-R2, Allegheny and Juniata Townships. One course reinforced concrete. Clark Brothers Construction Co., Cherrytree, Pa., \$288,060.94.

Blair County, R-260, R-537, Frankstown

Township. One course reinforced concrete. E. H. & L. A. Brua, Jr., Hollidaysburg, Pa., \$224,009.78.

Tioga County, R-103, Lawrence Township, Lawrenceville Borough. One course reinforced concrete. Smouse & Kreamer, Galeton, Pa., \$153,870.02.

Luzerne County, R-4, Larksville, Edwardsville and Kingston Boroughs. One course reinforced concrete. B. G. Coon Construction Co., Luzerne, Pa., \$34,375.15.

Mifflin County, R-192, Brown Township. Grading and drainage. A. G. Andrew Engineering Co., Tyrone, Pa., \$48,976.93.

Montgomery County, R-362, Abington Township, A-5576. One course reinforced concrete. George I. Thompson Co., Clearfield, Pa., \$42,027.24.

Schuylkill County, R-185, Rush and Kline Townships. One course reinforced concrete. B. G. Coon Construction Co., Luzerne, Pa., \$49,077.01.

Allegheny County, R-246, S-4, Pine and Marshall Townships. One course reinforced concrete. D. W. Challis & Son, Inc., Sewickley, Pa., \$255,364.40.

Allegheny County, R-108, R-545, Scott, Collier and South Fayette Townships. One course reinforced concrete. A. F. Jordano Co., Inc., Pittsburgh, Pa., \$200,471.30.

Warren Co., R-95, A-4892, Sheffield Township. One course reinforced concrete. Beck Construction Co., Warren, Pa., \$53,391.88.

Tioga County, A-5762, Mansfield Borough. One course reinforced concrete. Colonial Construction Co., Pittsburgh, Pa., \$21,755.60.

McKean County, R-211, Spur A-6223, Otto Township. One course reinforced concrete. D. L. Dennis, Peckville, Pa., \$12,805.50.

Washington County, R-268, Sec. 10, East Bethlehem Township, Centerville Borough. One course reinforced concrete, grading and drainage. Petriello Brothers, South Brownsville, Pa., \$56,295.95.

Street Paving, Ninth Street, Green, Washington, 11th Street, Marcus Hook, Pa. Owner taking bids due July 1st, 7 P. M. S. T. Certified check \$500. Owner, Borough of Marcus Hook, R. C. Rennie, Borough Hall, Marcus Hook, Pa.

Pennsylvania

Contracts Awarded

High School, South Williamsport, Pa. Contract awarded Joseph F. Drass, Hollidaysburg, Pa. Plumbing, P. Eitel, Williamsport, Pa. Heating, H. L. Weigel, Shamokin, Pa. Electric, J. B. Woodring, Hazleton, Pa. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, South Williamsport School Board, A. B. Elder, Supervising Principal, High School Building, South Williamsport, Pa. Brick, steel, reinforced concrete, 2 stories, 167x57 feet, 176x64 feet, excavation, concrete floors, cinder block, hollow tile, cast stone, asbestos built-up roof, yellow pine floors, metal lath, ornamental plaster, composition floors, steel casement sash, steel sash, painting, glazing, hardware, kalamein doors, hollow metal toilet partitions and doors, tile work, iron stairs, metal window guards, acoustical treatment, celotex, duntile, roof ventilators.

Church, Chestnut street, between Heather and Kent roads, Upper Darby, Pa. Contract awarded Barelay White Co., 22 North Thirty-sixth street, Philadelphia. Architect, Stanford B. Lewis, 1713 Sansom street, Philadelphia. Owners, First Church of Christ Scientist, John N. Tatum, 6235 Chestnut street, Philadelphia. Brick, stone, reinforced concrete, granite, limestone, 1 and 2 stories and basement, 80x102 feet, hollow tile, waterproofing, bond, excavation, gypsum roof, hollow gypsum blocks, area gratings, iron work, slag roof, metal lath, plastering, carpentry, mill work, steel sash, kalamein doors, hardware, damp-proofing, painting, glazing, marble and tile work.

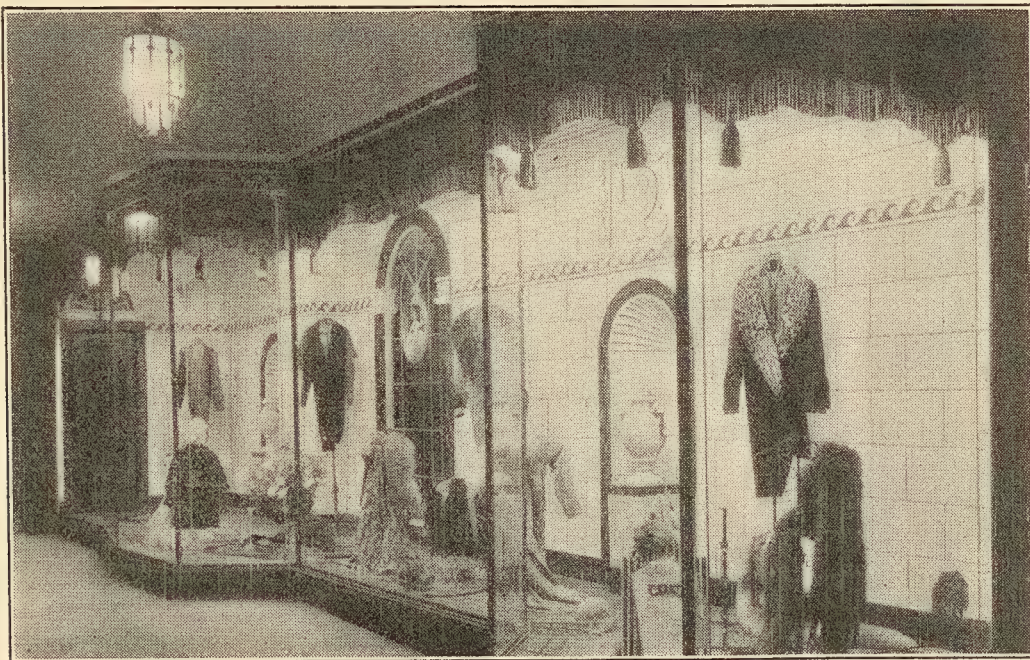
Main Building, State College, Pa. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Penn State College, State College, Pa. Stone and steel, 4 stories and basement, 233x91 feet, promenade tile and slate roof.

Residence and Garage, Fort Washington, Pa. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia. Architects, Thomas Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, C. Jared Ingersoll, Fort Washington, Pa. Brick, cinder block, 2½ stories and basement, 215x34 feet, shingle roof, cork tile, cement, pine, oak, linoleum floors (plumbing, heating, electric separate), metal lath, tile and marble work, integral waterproofing, ornamental iron work, area gratings, cinder concrete block, excavation.

Fire House, \$12,666. Linwood, Pa. Contract awarded Nichols & Beckett, Glenolden, Pa. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owners, Linwood Fire Company, No. 1, Thomas Hayes, Court House, Media, Pa. Brick, cast stone, steel, 2½ stories and basement, 32x36 feet, wing 20x27 feet, asphalt shingle roof, yellow pine and cement floors, metal ceilings, ornamental iron work, cinder concrete block excavation, bond, metal lath, electric light, steam heat.

Residence (alts. and add.), Wallingford Hill, Pa. Contract awarded Powell Construction Co., Ardmore, Pa., who will be ready for sub-bids in two weeks. Architect, private plans. Owner, Dr. Arthur Bassett, 1701 Chestnut street, Philadelphia. Stone, frame, stucco, 2 story add., 30x20 feet, shingle roof, wood deck roof, oak and yellow pine floors, hot water heat, electric light, tile work, ornamental iron work.

Bank (fire rebuilding), Third and Broad streets, Harrisburg, Pa. Contract awarded J.



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W. Pomraning, Mechanics' Trust Building, Harrisburg, Pa. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Central Trust Co., H. O. Miller, President, on premises. Stone, 1 story, general fire repairs.

Pine Street School, Tremont, Schuylkill County, Pa. Contract awarded John J. Houser, 1023 West Laurel street, Pottsville, Pa. Architect, D. H. Grottenboer, Schuylkill Trust Building, Pottsville, Pa. Owners, Board of Education, L. T. Jones, secretary, Tremont, Pa.

Apartment House and Stores (alts. and add.), Reading, Pa. Contract awarded Frank Fisher, 821 Mulberry street, Reading, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owner, Rev. I. M. Beaver, 512 Elm street, Reading, Pa. Plate glass, tile work, steam heat, electric light, linoleum and tile floors, 3 stories.

Hassmer Hall (alts.), Selinsgrove, Pa. Contract awarded Albert Boyer, Northumberland, Pa. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Susquehanna University, F. Eyer, Selinsgrove, Pa. Brick, reinforced steel, hot water heat, steel lockers, hollow tile, metal lath, tile work, partitions.

Church, Fifth street, Harrisburg, Pa. Contract awarded J. E. Schradley, 1715 North Fifth street, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Fifth Street Methodist Episcopal Church, David Wise, Harrisburg, Pa. Brick, third story, 40x120 feet, maple floors, kitchen equipment, showers.

Grade School, near Dauphin. Contract awarded W. E. Bushey, Lemoyne, Pa. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owners, Middle Paxton Township School Board, R. B. Stricker, President, R. D. 1, Dauphin, Pa. Brick, steel, 1 story, 75x60 feet, shingle roof, pine floors.

Parsonage, Richboro, Pa. Contract awarded Fesmire Brothers, Huntingdon, Pa. Architect, Harry E. Parker, 1120 Locust street, Philadelphia. Owners, Reformed Dutch Church of Addsville, care of architect. Brick, 2 stories, 24x40 feet, slate roof, hardwood floors, hot water heat, plumbing, electric light, tile work.

Residence and Garage, Ridley Park, Pa. Contract awarded Pomeroy Construction Co., Lansdowne, Pa., not signed. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, T. P. Warad, Ridley Park, Pa. Brick, 2 stories, 25x56 feet, shingle roof, hardwood floors, electric light, tile work (heating, plumbing separate bids).

Church (alts. and add.), Hamburg, Pa. Contract awarded Wheeler & Stitzel, Shoemaker-ville, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, First Reformed Church, Rev. D. R. Krebs, 142 North Fourth street, Hamburg, Pa. General alterations, slate roof, composition floors, cut stone, cinder concrete block.

Residence (alts. and add.), Manoa road, Penfield, Pa. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia. Architect, I. Deschick, 1701 Chestnut street, Philadelphia. Owners, Mr. and Mrs. Jesse Linton, Manoa road, Penfield, Pa. Heating alterations, painting, glazing, concrete work, carpentry and mill work, plastering, metal weather strip.

School, Newtown, Pa. Contract awarded Harry Watson, Fox Chase, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, George School, Newtown, Pa. Excavation, brick work, concrete and cement work, carpentry and mill

work, plastering, hardware, electric light, painting, glazing (plumbing, heating reserved).

Factory, Lancaster, Pa. Contract awarded D. S. Warfel, 452 North Prince street, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Dewalt Products Corporation, care of architects. Brick, steel, 1 and 2 stories, 100x225 feet, composition roof, concrete floors, roof ventilators, vapor heat, electric light, steel sash, fire doors.

School, Leola, Pa. Contract awarded E. K. Kreider, New Danville, Pa. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owners, Upper Leacock Township School Board, Leola, Pa. Brick, 1 story, 2 rooms, Barrett roof, oak floors.

Church, Carlisle, Pa. Contract awarded W. E. Bushey, Lemoyne, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, United Brethren Church, Rev. I. Ernst, Carlisle, Pa. Brick, stone, auditorium and basement, 97x55 feet, tin roof, yellow pine floors, electric light, waterproofing, cast stone, cinder concrete block.

Sanitary Sewer, Milbourne, Pa. Contracts awarded Delaware County Construction Co., Clifton Heights, Pa. Sanitary sewer, \$4,000; storm sewer, \$4,560. Owners, Borough of Milbourne, Pa., E. S. Opdyke, Milbourne, Pa. Engineers, Damon & Foster, Sharon Hill, Pa.

Road Work, Pennsylvania. Contract awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Washington County, R-118-247, Fallowfield Township, Charleroi Borough. One course reinforced concrete, vitrified brick pavement on plain concrete base. Thomas Arrigo, Charleroi, Pa., \$64,755.05.

Mercer County, R-82, Greenville Borough. Bituminous surface course, Specifications A, D or E. Young & Keesecker, Youngstown, O., \$11,302.80.

Beaver County, R-278, Sec. 1A and 3, A-5533. Georgetown Borough, Greene Township. One course reinforced concrete, grading and drainage. Keystone Contracting Co., Pittsburgh, Pa., \$243,699.33.

Dairy Building (alts.), 10 East Athens Ave., Ardmore, Pa. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia. Architect, Stuckert and Co., 1600 Arch street, Philadelphia. Owner, Scott Powell Dairies, Co., Inc., Ardmore, Pa. Structural steel, brickwork, steam heat, cork insulation, concrete, carpentry, millwork, plastering, plumbing, new two story brickwall.

Two Family Residence, Stuart and Windemere Avenue, Lansdowne, Pa. Contract awarded John Greim, Morton, Pa. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, W. L. & S. D. Brown, Lansdowne, Pa. Brick, stone, 40x55 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work.

Stadium (add.), Villa Nova, Pa. Contract awarded Seeds and Derham, 25 Maplewood street, Philadelphia. Owner Villa Nova College, Rev. J. M. Fleming, O. S. A. premises. Architect, Paul Monaghan, 1520 Locust st., Philadelphia. Excavation, hollow tile, concrete and cement work, iron work, Sanymetal partitions, hardware, carpentry and millwork, stucco, painting, plastering, glazing, 55x300 feet.

Road Work, Pennsylvania. Contract awarded. Owners, Pennsylvania Department of Highways, Jas. L. Stuart, Secretary, Harrisburg, Pa. Allegheny Co., R-246, Sec. 5, Ross Township, West View Borough. One course reinforced concrete. D. W. Challis & Sons, Inc., Sewickley, Pa. \$158,661.59.

New Jersey Construction News

Hotel, Pinewold, N. J. Architect taking bids due July 2nd. (Note due date.) Architect, W. L. Oltar Jevsky, 130 West Forty-second street, New York. Owner, B. W. Sangor Hotel Corporation, 1547 Broadway, New York.

School (alts.), Pennington, N. J. Architect taking bids due July 1st. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, Pennington School, Pennington, N. J. Brickwork, carpentry and millwork, concrete and cement work, cut stone work, demolition, excavation, hardware, steam heat, ornamental iron work, slate and tile roof, painting and glazing, iron steel, sheet metal work, plastering.

Hotel Lincoln, North Carolina avenue, near Boardwalk, Atlantic City, N. J. Plans in progress. Owner will build. Architects, Sugarman & Berger, 345 Madison avenue, New York. Owner, Milton Mendel, 198 Broadway, New York City. 20 stories, 150x150 feet, with tower, 743 rooms with baths, brick, steel, concrete.

School (add.), Clement Bridge road and Gloucester pike, Barrington, N. J. Owners taking bids due July 11th, 8 P. M. (Eastern Standard Time). Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, School Board of Barrington, E. M. Oliver, Barrington, N. J. Brick, 2 stories, 40x60 feet, black slate roof, reinforced concrete, cement and maple floors, radiation, plumbing, electric work, bell system, oil burners, concrete block backing. Deposit, \$25, refunded to all except successful contractors. Certified check for at least 10 per cent. Bond.

Bridges (5), Route 29, Sec. 7, between Raritan and Chimney Rock, N. J. Owners taking bids due July 8th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Concrete, reinforcing steel, structural steel, excavation. Certified check, 10 per cent. Deposit, \$10.

Road Work, Route 29, Sec. 8, Chimney Rock to Washington avenue, Somerset County, N. J. Owners taking bids due July 8th at noon (Eastern Standard Time). Deposit, \$10. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Excavation, concrete pavement, shoulders. Certified check, 10 per cent.

New Jersey Contracts Awarded

Hospital, Somerset Hills, N. J. Contract awarded Murch Bros., St. Louis, Mo., \$870,000. Architect, Construction Department, 764 Arlington Building, Washington, D. C. Owners, U. S. Veterans' Bureau, F. T. Hines, Director, Arlington Building, Washington, D. C. Brick, cast stone, limestone, steel, reinforced concrete, hollow tile, architectural terra cotta, marble, hollow tile, rubber tile, iron work, rubber tile, linoleum floors, steel sash, iron stairs, slate and built-in roof, skylights, roof ventilators, metal lath, 4 stories, 151x112 feet, 2 stories, 152x29 feet, 145x35 feet, 3 stories, 99x106 feet, 2 stories, 23x98 feet, 126x30 feet.

Apartment Hotel, \$1,250,000. Sovereign avenue and Boardwalk, Atlantic City, N. J. Contract awarded C. P. Tilton, 4 South Virginia avenue, Atlantic City, N. J., who is taking sub-bids due at once. Architect, W. Macy Stanton, Land Title Building, Philadelphia. Owners, Sovereign Manor, Inc., Atlan-

tie City, N. J. Steel, brick, concrete slab, 15 stories, 100x250 feet, 205 apartments, built-up roof, gypsum and hollow tile partitions, granite base piling, 4 elevators, metal weather stripping, tanks, plumbing, screens, water-proofing, refrigeration, vapor heat, 3 boilers, electric light, tile, hardwood, terrazzo, linoleum floors, steel door frames, hollow metal doors.

Store Building (add.), 1127-29 Broadway, Camden, N. J. Contract awarded J. M. Cundy, Westville, N. J. Architects, Edwards & Green, Camden, N. J. Owner, Howard J. Dudley, on premises. Brick, concrete, steel, stucco, 4 stories and basement, 91x30 feet, copper and slag roof, oak and pine floors, elevators, roof ventilators, metal ceilings, dampproofing, wall finish, steam heat, electric light, kalamein doors, metal lath, tile and marble work, bond, ornamental iron work, demolition, excavation, plumbing, treadrite tile floors.

Bathing Pools (3), \$150,000. Ocean City, N. J. Contract awarded P. G. Hannum, Atlantic City, N. J. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Hotel Flanders, Ocean City, N. J. Reinforced concrete, 100x150 feet, 40x60 feet, 30x40 feet, various depths, concrete promenade deck around each pool 25 feet wide, wood booths, plumbing, electric work. Filtering plant awarded to Roberts Filter Manufacturing Co., Darby, Pa.

Locker and Recreation Building, Borough of Berlin, N. J. Contracts awarded Camden Construction Co., Camden, N. J., \$12,725. Plumbing, Charles H. Leopold & Son, Camden, N. J., \$1,089. Electric, Franks & Sweeney, Camden, N. J., \$530. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Camden County Park Commissioner, Wilson Building, Camden, N. J. Cinder block, stucco, 2 stories, 22x115 feet, Barrett roof, tile roof, concrete floors, metal partitions, steel sash, basket racks, steel lockers, shelving and stools, disappearing stairs (electric and plumbing separate bids).

Incinerator, Federal street and Cooper River, Camden, N. J. Contract awarded Decarie Incinerator Co., Nelson and Lauson streets, Long Island City, N. Y., \$185,000. Engineer, T. J. Daley, City Hall, Camden, N. J. Owners, City of Camden, City Hall, Camden, N. J. Brick, concrete slab, steel, slag roof, 3 stories, two 70-ton units, concrete floors, plumbing and equipment.

Residence, Hilltonia, Trenton, N. J. Contract awarded Fred Parker, 327 Calhoun street, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Theodore Tobish, American Mechanics' Building, Trenton, N. J. Stone, 2½ stories, 83x30 feet, slate or shingle tile roof, hardwood floors, electric light, tile work, casement windows, brass pipe, flagstone.

Residence, Pennsgrove, N. J. Contract awarded Smyth Construction Co., 1415 Clinton street, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, Fred Gentieu, Pennsgrove, N. J. Brick, 3 stories, 40x40 feet, shingle roof, oak and tile floors, electric light, tile work.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 25, Sec. 8A, from Grand street, Rahway, to Wood avenue, Linden, N. J. (Union County), C. H. Winans, 207 Broad street, Elizabeth, N. J., \$164,792.52.

Route S-41, Sec. 1, from a point west of Hilton road to King's Highway in Camden and Burlington Counties. S. J. Groves & Sons, Ridgefield, N. J., \$549,150.09.

Miscellaneous Construction News

School, Sykesville, Carroll County, Md. Plans in progress. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Board of Education of Westminster, M. S. H. Unger, Westminster, Md. Brick, steel, tile, 2 stories and basement, 60x105 feet, slag roof, wood deck, maple floors, safety treads, roof ventilators, cast stone, bond, steel sash, steam heat, electric light.

Schools (3), Wolfsville, Newmidway and Lewistown, Frederick County, Md. Preliminary plans in progress. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Board of Education of Frederick County, G. Lloyd Palmer, Frederick, Md. Brick, 1 and 2 stories; Wolfsville, 8-room add.; Newmidway, 8-room add.; Lewistown, 3-room add.

Residence, Hagerstown, Md. Plans in progress. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owner, Thomas Pangborne, Hagerstown, Md. Stone, 2 stories, 60x100 feet, slate roof, hardwood floors, vapor heat, electric light, tile work, oil burner, casement windows.

Residence, State street, Dover, Del. Architects will be ready for bids next week. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, Jacob Ehrlich, Dover, Del. Brick, stucco, 2½ stories, 30x40 feet, slate roof, hardwood floors, oil burner, electric light, tile work.

Residence No. 4, Wilmington, Del. Owner will build. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, Mr. C. A. Eckman, 821 Orange street, Wilmington, Del. Stucco, 3 stories, slate roof, hardwood floors, electric light, tile work.

Garage and Stable, Tuxedo Park, N. Y. Architects taking bids due June 29th. Architects, Peabody, Wilson & Brown, 140 East Thirty-ninth street, New York. Owners, S. Sloan Colt Estate, Tuxedo, N. Y. Stone, steel, 2½ stories and basement, irregular in size, slate roof.

Nurses' Home, Cumberland, Md. Architects taking bids due July 1st. Architects, Zantzing, Borie & Medary, Otis Building, Philadelphia. Owners, Cumberland Memorial Hospital, Cumberland, Md.

Residence and Garage, \$150,000. Wilmington, Del. Architect taking bids. Architect, Albert Ely Ives, Delaware Trust Building, Wilmington, Del. Owner, Royal Hull, care of architect. Stone, 2½ stories, 160x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Owners taking bids due July 9th at 2 P. M. (Eastern Standard Time).

Contract 131, East State street, Delmar, .51 mile. Excavation, cement concrete pavement.

Contract 132, Bethany Beach-National Guard Camp Widening. Excavation, borrow, broken slag base course, cement concrete pavement, cement concrete pavement (slag). Certified check, 10 per cent. Deposit, \$2.

Miscellaneous Contracts Awarded

Building, Washington, D. C. Contract awarded Charles L. Stackhausen Co., Gay and Water streets, Baltimore, Md. Architect, C. B. Comstock, 110 West Fortieth street, New York City. Owners, General Baking Co.,

420 Lexington avenue, New York. Brick, reinforced concrete, steel, 2 stories and basement, 240x162 feet, slag roof, cement floors and concrete work, rolled steel sash, ornamental iron work.

Store and Apartment, \$5,000. Seventh and King streets, Wilmington, Del. Contract awarded Samuel Kohn, 801 West Nineteenth street, Wilmington, Del. Architect, private plans. Owner, Henry Harris, 2307 Harrison street, Wilmington, Del. Fire repairs, fire escape.

Residence and Garage, \$5,350. New Castle street, Wilmington, Del. Contract awarded Domenick Cantera, 1504 Pennsylvania avenue, Wilmington, Del. Architect, private plans. Owner, Mary Demenchick, care of builder. Concrete block, brick, 2 stories, 16x42 feet, composition roof, pine floors, hot air heat, electric light.

Residence (alts. and add.), Weldin avenue, Wilmington, Del. Contract awarded W. D. Haddock & Co., 804 Orange street, Wilmington, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owners, F. C. Zeisberg, care of architects. Frame, stucco, 2½ stories, irregular size, shingle roof, hardwood floors, tile work.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 18, 1929. Sealed bids will be opened in this office at 3 p. m., July 22, 1929, for extension and remodeling (except elevator) of the U. S. post office at Watertown, N. Y. Drawings and specifications, not exceeding six sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit is made of \$25.00 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

HOW BUILDING MATERIAL MANUFACTURERS SELL STOCK DESIGNS TO ARCHITECTS

By ALFRED E. FOUNTAIN, JR., *Division
of Architecture & Building
Lyddon, Hanford & Kimball, Inc.*

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1929 Issue

In those days that someone dubbed "Late Grant," meaning the Mauve Eighties, American architecture received its first real impetus. Our cities started to grow and expand into suburbs. America began to look to its comfort in housing. Architecture bestirred itself from its long lethargic sleep and started on its great upward sweep toward today's practice.

Quite naturally, the new and keenly awakened minds of architects began to look with horror on those long years of architectural monstrosities—the scroll-saw house and its ideas of stock design. And so was born the modern architect's distaste for all stock design.

In the early part of the present century, so acute had this aversion become that it headed architecture toward a most

uneconomic condition—that of over-emphasis on minute refinement. Every last moulding must be detailed and full-sized, shop drawn and redrawn, until the average architectural fee vanished in clouds of tissue and blueprints.

When mass production in architecture with its ever-increasing demands on the architects arrived, it became obviously impossible for an office, run for a profit, to render this tremendously costly service. Some relief must be had. It became a question either of recourse to the material manufacturers' stock design (usually made for small-town dealers and more often than not atrocious in design) or a new standard of design evolved by the architect himself.

Many progressive manufacturers seized this wonderful opportunity for architectural preference and began, in close co-operation with architects, to revamp their stock designs to meet the most critical tastes. But you can't breed out of a professional artist in a few years the dislike that has grown up in him over two or three decades, so that today the word "stock" prefixed to any design is pretty apt to build up a sales resistance in selling the architect.

But for the last twenty years or more, a great many artistically inclined or architecturally trained men have drifted into the manufacture of building products. They have applied their good tastes and their practical experience to the artistic refinement of their product. Many companies have retained well-known architects to design their entire lines. Others maintain architects on a fee basis for advice on the subject of design. Then there are manufacturers who specialize in the reproduction of old or antique products who have sent men abroad to make exact copies of recognized masterpieces. The result is that the poorest stock design today is in far better taste and, incidentally, far more practical, than the best of them thirty or forty years ago.

So one of the many problems that faces the building trades manufacturer of today is how to sell his stock designs to the architect.

A Problem in Economics

This problem does not arise from any desire on the part of the manufacturer to force cheap or inferior materials on the architect. It does not even mean that the manufacturer will make any greater immediate profit from his sale. It is a sheer problem in economics. The manufacturer knows he has a practical and beautiful article. He knows of the growing demands for quick delivery and the economies of mass production. And finally he knows that the cheaper he can sell his product and the cheaper he can make it for the architect to use it, the cheaper

it will be for the owner and the greater its use in construction.

I have been through the plan files and model rooms of many manufacturers who for years have done work for the very best architects in the country. Most of them have literally thousands of dies, models or plans of surprising beauty—that have been evolved and slaved over by the master minds of design. They have been produced to meet almost every conceivable architectural problem. And each costs anywhere from \$20 to \$500 according to the type of product and whether plan or steel die.

Several years ago a manufacturer of cast metal grilles estimated that he had accumulated over a long period of time several hundred thousand dollars worth of dies designed by the world's finest designers. If these could be put into use again (and why not, for who except in rare instances can recognize a grille no matter how large or beautiful) the saving in dollars and time would be enormous. In spite of the fact that most of these designs remained the property of the architect who created them, or the owner who paid for them, this manufacturer secured their release from their owners and offered them to the entire architectural profession.

Another manufacturer of drawn metal shapes recognized the same condition and is laying extensive plans to effect the re-use of his dies with its consequent saving.

There are, of course, manufacturers of stock products which are so easy to visualize to the architect that the sales problem is not serious. A maker of stock woodwork and trim, for instance, has a relatively simple problem. The utmost decorative possibilities of wood are known to the architect. A simple accurate visualization will tell the whole story. But this is not true in the stones, natural or artificial, the metals and other products that are not so intimately known as that have not been so intensively studied as woodwork.

There are, too, many products whose designs have for years been accepted as inevitable. Their sales story does not fall within the province of this article which considers only articles in which there is a latitude in design allowable. Plumbing fixtures might for example be classed with products that allow scant scope for the designer. Seemingly, their mechanical requirements have outweighed the desire for beauty and but little refinement has been attempted. There has been, however, a great change in this respect within the past few years, since beauty is now demanded in bathrooms as well as in every other part of the house, and it is conceivable that before long plumbing fixtures will also be sold on the basis of design.

However, the selling of stock materials, whether structural or decorative, to the

most aesthetic and particular architects, has now been so often successfully accomplished that it is safe to predict that it can be done by almost any company which will approach the problem with a full realization of the architect's problems in mind.

Not long ago, in a conversation with one of the deans of architecture, I brought up this question of stock design. His analysis of the case is in substance as follows: The modern architect is so engrossed in the business side of his profession—finance, management, promotion, etc.—that he has but little time to spare for the problems of refinement in design. The greatest help that a manufacturer of building products can give architects is by first producing really worth-while stock designs and second by showing architects that they are beautiful and suggesting ideas for their use.

The American Brass Company has for years produced extruded bronze shapes for fabricating bronze doors, bank screens, elevator doors, etc. Each of these shapes were specially designed and had dies made for its production. The design and die were usually used but once, then stored away and forgotten. Finally, a great many hundreds of these dies accumulated. The problem was how to make use of them with the resultant saving of time and money.

What the company has done is to consolidate this vast accumulation of original designs and publish a book showing the shapes available for re-use without the added cost of new designs and dies.

This book seemingly solved only part of the problem because it demanded so much of the architect's time and ingenuity to go through it and select such designs as he could use. Furthermore, remember that the average architect is prejudiced against all stock design and his casual study of this seemingly uninteresting tome confirmed his fears.

But with a sure insight into the architect's mind, the American Brass Company turned this book into one that architects would find invaluable. As most designs are based on the adaptation of a precedent and as most bronze work that can be photographed contains shapes not available as stock, or which could not have the appeal of absolute originality, it was decided to have recourse to drawings. The company employed a skilled designer, authorized him to make an exhaustive study of bronze design in general and extruded shapes in particular and then to create drawings in natural colors, suggesting the uses of the shapes shown in the book. These drawings were to be original in conception, absolutely practical structurally and to suggest the probabilities of extruded shapes in both classical and modern design.

So skilful were the drawings that when bound into the book or offered separately to architects, they immediately awakened in their minds a new appreciation for extruded bronze in general and the company's stock shapes in particular. Incidentally, these drawings make splendid architectural magazine advertisements and give the company's salesmen an interesting talking point when calling on architects.

The American Enameled Brick & Tile Company has gone a long way toward solving the problem of having not only stock shapes but a very limited number of them by suggesting new and practical uses for these shapes. The general conception is that bricks can be moulded into any desired shapes. This is actually so, but it is not economically practical with an enameled brick costing 10 cents each.

An exhaustive research into brick design convinced the company that a limited number of shapes would meet every modern architectural requirement. To convince architects of this fact, the company has for the last two years been issuing each month a suggestion for brick design using only its stock shapes. While this type of advertising benefits all brick manufacturers, it has well repaid its sponsors.

The work has been a real contribution to the brick industry. The designs have evolved new methods of brick ornamentation (some so original as to be patentable). They have pointed out the great range and adaptability of brick to modern architecture. They are selling enameled brick as they never sold before.

For over sixty years a manufacturer of lighting equipment has specialized in the solution of different lighting problems—picture galleries, libraries, churches, show windows, etc.—anything that called for the unusual, spectacular or novel. Experience with hundreds of thousands of problems has resulted in a range of stock equipment that will fill the average need for show window illumination.

The advertising problem here is particularly difficult because display illumination is bought solely for the effect it will create. Quantity of light does not count nearly so much as quality of color and the elimination of shadows. As the average architect has very little conception as to what a given piece of electrical apparatus will do in this respect he has to be shown what it will do.

Photographs of actual windows illuminated by the manufacturer will not do because of the mechanical difficulties. Taking pictures through plate glass will not result in showing the refinement of the window lighting. Apparently only extraordinarily carefully conceived drawings will solve this problem. A campaign has been prepared based on drawings of windows specially designed by a recognized expert. These designs are then rendered

by an artist adept in the portrayal of light effects. Then to add authenticity, credit for the display is given to some prominent store designed by a well-known architect, where the manufacturer's equipment has been installed.

I could tell a dozen other instances of the successful selling of stock designs to architects. Many hardware manufacturers have been particularly successful as have makers of casement sash, rubber flooring, and the like.

Then, too, there is the evidence of the paint manufacturers and the like who have engaged in the nearly won battle to establish stock colors. But this leads to another and perhaps more intricate part of architectural selling so it can be only hinted at here.

Stock design is so economically sound that in time it will be the accepted thing. Right now, architects object to it but tell us they must accept it. And the proved way to make them accept it without resistance is, first, to be sure the designs are sound in every way. Then to show them to the architect *in situ* so that he can visualize the product in use. Sometimes photographs will accomplish this but by far the best way is to use the architect's own medium—drawings.

In this way, you can place your product where you want it, in the type of building in which you would like to sell it. And best of all you can suggest its use in modern architecture or decoration. Then, too, you will find that by using drawings for general visualization you can quite gracefully introduce selling points in the shape of details that tell more of your product than reams of type.

GIVE MR. HOOVER A CHANCE

"What does business expect of Hoover?"

The answer to that question can be put in two words, "too much."

We have had a long occupancy of the White House by "a statesman whose watchwords have been 'caution' and 'economy.'" His was a task of letting the country find itself after the great convulsions of war. Business seems to have been in general agreement that he did the job well.

The pressure on Mr. Hoover is to "do things," to be a "constructive" president. He goes to Florida and is urged to ask Congress to finish a partly done drainage project; strong pressure is brought upon him to speed up the creation of a great reserve fund for public works that unemployment may be prevented; a tariff having been suggested as one means of helping the farmer the cry is insistent in some quarters that the whole tariff be done over.

Already the press that opposed Hoover is saying that before the end of the first

year of the new administration there will be a threatened deficit and a cry for an increase in federal taxes.

Some of the overenthusiastic friends of the president-elect might well restrain their enthusiasm and quiet their cries that "something should be done."

President Coolidge once said that worse things might happen to an administration than *not* to be on the front page. Disaster happens more often from being too fast than from being too slow.

Mr. Hoover's friends might well quiet their fear that some one will hurl at him the deadly phrase "he isn't constructive" and let him work out his own plans in his own way and at his own time.—*East Bay Builder*.

QUALITY IN ROOFING IMPORTANCE

Many miles away, as one approaches a town, we note how conspicuous are the roofs and church spires against an almost solid blue-green background.

Most of us recall the days when these roofs were hardly without exception of natural blue-gray slate, suggestive of the ruggedness our forefathers observed when designing and building their homes. These roofs endured years with no attention whatever. When once applied they were entirely forgotten.

In some communities vivid penetrating color later found its way both in natural slate and in manufactured roofing materials. A choice of every known shade became available to appease the public taste, often with the result that the less scrupulous builder was tempted to give color, but, unfortunately, disregard quality.

However, the fallacy of such practice is now being felt. The annoyance and expense of upkeep has injected much seriousness in the thoughts of the home owner or buyer.

Thus we are back where we started—and a bit wiser. Color is desirable.

—*East Bay Builder*.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—*Elbert Hubbard*.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS
Metalweld, Inc. ...26th and Hunting Park Ave., Phila.

AIR COMPRESSORS FOR HIRE
Compressed Air Service Corp.,
5531 Haverford Ave., Phila.

Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.

Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.

Rental Service Co.20th and Venango Sts., Phila.

AIR WASHERS
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS
Kerlow Steel Flooring Co.371 Drexel Bldg., Phila.

Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE
DeGiuseppe Art Marble Co.818 N. 48th St., Phila.

Pigeon, Ernest A.4231 Filbert St., Phila.

ARTESIAN WELLS
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.

Weber, F., Co.125 S. 12th St., Phila.

Weil, J. H., Co.1315 Cherry St., Phila.

ASBESTOS SHINGLES
Warren-Ehret Co.Luzerne and "E" Sts., Phila.

ASBESTOS WALL PANELS
Howard Ketcham3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER
Blue Print Shop1520 Sansom St., Phila.

Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.

Weber, F., Co.125 S. 12th St., Phila.

Weil, J. H., Co.1315 Cherry St., Phila.

BOILER AND PIPE COVERING
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

BRICK
Cox, Janeway & Co.Real Estate Trust Bldg., Phila.

Ketcham, O. W.121 N. 18th St., Phila.

BUILDERS
Anthony Darin & Bros.5552 Master St., Phila.

Mitchell Bros.2125 Race St., Phila.

John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDING MATERIALS
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

BUILDERS' SUPPLIES
Service Supply Corp.20th & Venango Sts., Phila.

CABINET WORK
Huskey Mfg. Co.Columbia and Howard Sts., Phila.

CAISSONS
Foundation & Construction Co.1320 Race St., Phila.

CASEMENTS (Window or Door)
DePett Casements900 Chestnut St., Phila.

CAULKING
Malia, Thos. J.226-32 W. Mentor St., Phila.

Jules H. Rosenberg2313 Walnut St., Phila.

CAST STONE
New Jersey Cast Stone Co.Vineland, N. J.

CEMENT WORK
D'Lauro, John7732 Ardleigh St., Phila.

Massiah, Frederick Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

COLUMNS (Metal)
Pearce Fireproof Co.1911 N. 2nd St., Phila.

CONCRETE WORK
Massiah, Frederick Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Service Supply Co.20th and Venango Sts., Phila.

CORK TILE
Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.

CURBING
Graham, Frank C.314 S. Camac St., Phila.

DAILY BUILDING NEWS
Building News Pub. Co.1530 Chestnut St., Phila.

DAMP-PROOFING
Anti-Hydro Waterproofing Co.,
1518 Walnut St., Phila.

Barnett Bingswanger, Jr.829 N. 3rd St., Phila.

Hydroseal Waterproofing Co.829 N. 3rd St., Phila.

DISMANTLING
Industrial Dismantling Co.,
2500 E. Huntingdon St., Phila.

DOOR BEDS
Murphy Door Bed Co.Lewis Bldg., Phila.

DRAWING MATERIALS
Robbins, Chas. H., Co.Ranstead & Mole Sts., Phila.

Weber, F., Co.125 S. 12th St., Phila.

Weil, J. H., Co.1315 Cherry St., Phila.

ELECTRICAL REFRIGERATION
Philadelphia Gas Range Co.1026 Arch St., Phila.

ELECTRIC SAWS
Crowe Safety Saw Sales Corp.,
515 Real Estate Trust Bldg., Phila.

FENCES
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS
Frank W. Butterworth1518 Walnut St., Phila.

FIRE INSURANCE
Insurance Co. of North America1600 Arch St., Phila.

Phila. Fire & Marine Insurance Co.,
N. E. Cor. 15th and Locust Sts., Phila.

FIREPROOFING
Pearce Fireproof Co.,1911 N. 2nd St., Phila.

FLAG POLES
J. E. Lingo & Son, Inc.Camden, N. J.

FLOORING COMPOSITION (Mineral)
Selby, Battersby & Co.810 Noble St., Phila.

FLOOR HARDENER
Anti-Hydro Waterproofing Co.1518 Walnut St., Phila.

Hydroseal Waterproofing Co.829 N. 3rd St., Phila.

FLOORING (Cork)
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

Livezey Linoleum Floors, Inc.128 S. 19th St., Phila.

Selby, Battersby & Co.810 Noble St., Phila.

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Vol. XLIV, No. 27
July 3, 1929

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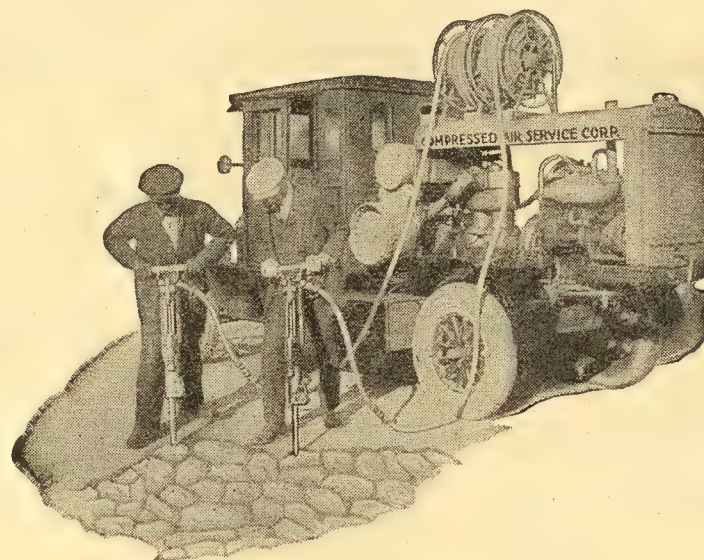
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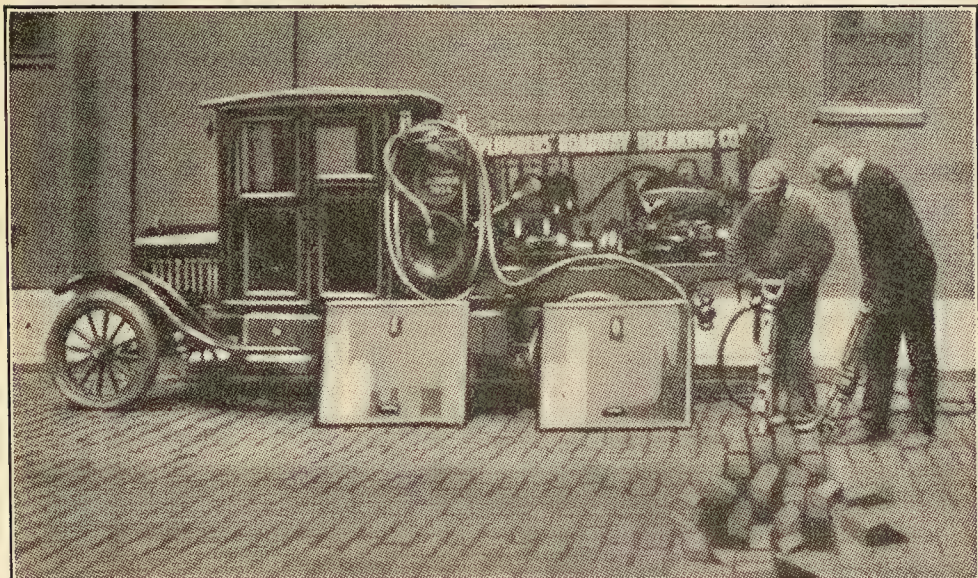
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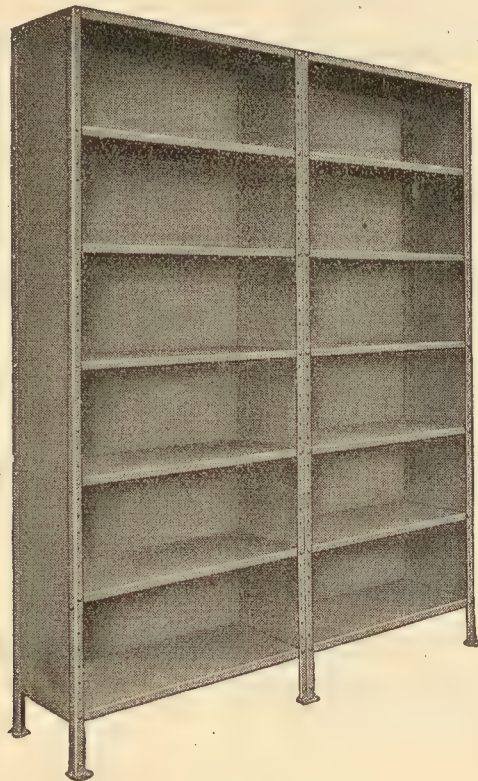
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 27

Engineering and the Building Trades

PHILADELPHIA

July 3, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Buildings, Aramingo and Ontario; Aramingo and Tioga streets, Philadelphia. Work contemplated. Owners, Quaker City Iron Works, Tioga and Richmond streets, Philadelphia. Size of lot, 225x353 feet.

Art Theatre (seating capacity 750), 251 South Eighteenth street, Philadelphia. Work contemplated. Architect, William Pope Barney, 1805 Walnut street, Philadelphia. Owners, Philadelphia Art Alliance, Colonel S. Price Wetherill, Jr., on premises.

Peter A. B. Widener Memorial Art Museum, probable location Twenty-third and Parkway, Philadelphia. Work contemplated. Owner, Joseph E. Widener, Land Title Building, Philadelphia.

Residence Development (300), Cheltenham avenue, Penrose to Sycamore street, Philadelphia. Work contemplated in spring, 1930. Owner, James A. Nolen, 64 East Church lane, Philadelphia.

Sunday School, Elmwood avenue, near Seventy-second street, Philadelphia. Preliminary plans in progress. Architect, Adiel Martin Stern, 413 North Thirty-eighth street, Philadelphia. Owners, Karmel Reformed Church, Rev. W. G. Weiss, 2434 South Seventy-second street, Philadelphia. Brick, 3 stories.

Stores (5), 35-43 Armat street, Philadelphia. Plans in progress. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Heyman & Brother, 213 South Broad street, Philadelphia. Brick, 1 story.

Store Building, 115 South Sixteenth street, Philadelphia. Plans in progress. Architect, Lloyd Titus, Brighton Hotel, Atlantic City,

N. J. Owner, Walter F. Off, care of Mr. Richards, 115 South Sixteenth street, Philadelphia. Brick, limestone, steel, 2 stories and basement, 20x100 feet.

Office Building, 419 Walnut street, Philadelphia. Plans in progress. Engineers, William Steele Sons, Fifteenth and Cherry streets, Philadelphia. Owners, London Guarantee & Accident Co., 512 Walnut street, Philadelphia. Brick, limestone, steel, 4 stories and basement.

School of Practice (new wing), Chew and Upsal streets, Philadelphia. **Elementary School**, Thirteenth and Susquehanna avenue, Philadelphia. Plans completed. Owners will be ready for bidders July 22nd. Architect, I. T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Brick, steel, stone.

College and Hospital Buildings, Abbottsford road and Henry avenue, Philadelphia. Plans completed. Architects will soon take bids. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Women's Medical College, Mrs. James Starr, Twenty-third and College avenue, Philadelphia. Brick, concrete, steel.

School, Cliveden and Green streets, Philadelphia. Ready for bids in a month. Architects, H. D. Dagit & Son, 1322 Race street, Philadelphia. Owners, St. Magdalene Sophia Roman Catholic Church, Rev. M. A. Crane, Philadelphia. Mansion house altered for rectory, building altered for convent, building altered for parish club house.

Residences (24), Ellett street, East of Sherman street, Chestnut Hill, Philadelphia. Owner taking sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Samuel Schlosberg, on premises. Brick, 2 stories, 16 feet 5 inches x 71 feet, slag and slate roof, hardwood floors, hot water heat, electric light, metal lath, tile work, two-car basement garages.

Tunnel, Corinthian avenue and Girard avenue, Philadelphia. Engineers taking bids. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Engineers, Day & Zimmerman, 112 North Broad street, Philadelphia. Owners, Girard College, on premises.

Residences (3), **Garage** (1), Southeast Corner Fifty-fifth and Jefferson streets, Philadelphia. Architect taking bids due July 9th, 2 P. M. Architect, Clarence L. Caspary, 1701 Walnut street, Philadelphia. Owners, Bassett & Haas, care of architect. Brick, steel, 2 stories and basement, 90x26 feet, slag and slate roof, oak and pine, linoleum floors, plumbing, steel basement sash, hot water heat, electric light, tile work, bond, ornamental iron work.

Building (alts. and add.), Large and Orthodox streets, Philadelphia. Owners taking bids due July 5th. Architect, John H. Rackie, 4341 Frankford avenue, Philadelphia. Owners, La France Textile Industries, on premises. Reinforced concrete, brick, carpentry and mill work.

Swimming Pool, Tacony and Levick street, Philadelphia. Owners taking bids due July 8th. City architect, William S. Covell, City Hall Annex, Philadelphia. Owners, Bureau of

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Recreation, Department of Public Works, 595 City Hall, Philadelphia. Steel, iron work, reinforced concrete, excavation, waterproofing, ornamental iron work, bond (plumbing separate bids), 120x40 feet.

Residences (19), \$78,000. Fanshawe street, East of Sackett street, Philadelphia. Permit issued. Architect, private plans. Owner, Ben F. Gotwals, 6669 Wayne avenue, Philadelphia. Brick, 2 stories, 15 feet 10 inches x 31 feet, 12x14 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Mill (alts.), \$5,000. Northwest Corner Twenty-first and Godfrey streets, Philadelphia. Permit issued. Architect, private plans. Owners, Frankford Worsted Mills, Adams and Leiper streets, Philadelphia. General alterations.

Residences (58), \$248,000. Comly street, East of Newtown street, Philadelphia. Permit issued. Architect, private plans. Owners, Robin, Izenberg & Cutler, 5918 North Broad street, Philadelphia. Brick, 2 stories, 15 feet 6 inches & 29 feet, 12x15 feet 6 inches, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (14), \$67,200. East side Charles street, Comly to Howell street, Philadelphia. Permit issued. Architect, private plans. Owner, P. J. McFarland, 2409 East Allegheny avenue, Philadelphia. Brick, 2 stories, 16x23 feet, 18x26 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (30), \$109,800. East side Rutland street, North of Magee street, Philadelphia. Permit issued. Architect, private plans. Owner, Harry Morrison, 514 Ritner street, Philadelphia. Brick, 2 stories, 13x22 feet, 16x26 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Garage, \$2,000. 3940-42 Bott street, Philadelphia. Permit issued. Architect, private plans. Owner, Alexander Brown, 3944 Elser street, Philadelphia. Brick, 1 story, 50x36 feet, slag roof, cement floors, electric work.

Building, Holmesburg, Pa. Low bidders. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Board of Inspectors, Philadelphia County Prison, W. H. Histon, superintendent, Tenth and Reed streets, Philadelphia. Holmesburg granite, concrete, steel, brick, 1 story and basement, 62x115 feet, 1 story, 100x49 feet. General, Wark & Co., 1600 Walnut street, Philadelphia, \$99,550; George W. Shaner & Son, Palmyra, N. J., \$104,950. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$10,300. Heating, N. Connolly, 1404 North Eighteenth street, Philadelphia, \$86,666. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$19,777.

Grading and Paving, Philadelphia. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Project approved. Owners will soon take bids. Henry avenue, School House lane, Southwest of Fairmount Park, to Markle, \$185,000. Henry avenue, Roberts to Hunting Park, \$125,000. Widening Fifteenth street, South Penn Square to Chestnut street, Southeast side. Grading and paving Winter street, Twentieth to Twenty-first, \$38,000; Twentieth street, Race to Cherry, to width from Market to Cherry, \$263,000.

Contract No. 179, Subway, Philadelphia. Owners, Department of City Transit, 12 City Hall Annex, Philadelphia. Owners taking bids due July 12th, 11 A. M. (Standard Time). Construction of passageway and escalator well for City Hall Station of Broad Street Station. No. 180, furnish escalator No. 1 and install. Deposit, \$10, refunded. Certified check, \$100,000 for bid of \$2,500,000 to \$5,000,000, and check \$300,000 for over \$5,000,000. Please note pages No. 3 and No. 7 on specification.

Supplies, Philadelphia. Owners taking bids due July 8th. Certified check, 5 per cent. Owners, Department of Supplies, T. F. Watson, 302 City Hall Annex, Philadelphia. No. 75, concrete saw. No. 276, asphalt surface and binder mixture, etc.

Fire Guards, Municipal Stadium, Philadelphia. Owners taking bids due July 9th, 11 A. M. (Standard Time). Deposit, \$5. Owners, Department of City Property, 117 City Hall, open 216, City Hall. Architect (city), W. S. Covell, City Hall Annex, Philadelphia.

Contract No. 272, Philadelphia General Hospital, Philadelphia. Owners taking bids due July 12th, 11 A. M. (Standard Time). Owners, Department of Supplies, T. F. Watson, 305 City Hall Annex, Philadelphia. Furnishing and installing equipment apparatus on new building. Certified check.

Tunnels (2), Front & Olney streets, Phila. Owner taking bids due as soon as possible. Engineers, Carson & Carson, 22 South 15th street, Philadelphia. Owner, Heinz Mfg. Co., care Mr. D. S. Light, on premises.

Day & Zimmerman, Engineers, 112 North Broad street, Philadelphia, taking bids due July 8th. Class C: American Water Work, standard ball and spigot pipe and fittings, 14 to 30 inches diameter, inclusive.

Residences (52), \$210,000. North and south side Levick street, east of Erdrick street, Philadelphia. Permit issued. Architect, private plans. Owner, Wm. B. Davenport, 6612 Wayne avenue, Philadelphia. Brick, 2 stories, 15x27 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

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Residence, \$33,000. N. E. corner Green Tree road and Summit avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Judson M. Zane, Land Title Building, Philadelphia. Stone, 3 stories, 30x19 feet; 3 stories, 19x32 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (10), \$28,200. West side 28th street, south of Morris street, Philadelphia. Permit issued. Architect, private plans. Owners, Bianchi & O'Neill, 5724 Chester ave., Philadelphia. Brick, 2 stories, 18x30 feet, slag roof, pine floors, hot water heat, electric light.

Sewers. Owner taking bids due July 10th, 11 A. M., S. T. Owner, Department of Public Works, Bureau of Engineers, 216 City Hall, Philadelphia. Inquire 1101 City Hall Annex, Philadelphia. Certified check 5 per cent. A: Branch Sewes, B: Main Sewers, Little Tacony Creek from S. W. of Lewis to Frankford Creeks, Mansfield, Mt. Airy to Gowen ave.

Church, Seventh and Luzerne streets, Phila. Plans in progress. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owner, St. Mathew's Lutheran Church, Rev. H. Braun,

care Architect. Cast stone, stone, slate roof, maple floors, electric light, plumbing, structural steel, metal work, leaded glass, church furniture, local stone facing, wall finish, kitchen equipment, miscellaneous iron work.

Office Building, Main street, Manayunk, Philadelphia. Owner taking bids due July 6. Architect, Ralph Lawrence, East Gates street, Roxborough, Philadelphia. Architect, S. S. Keely & Son, Main and Umbria streets, Philadelphia. Brick, steel, 2 stories and basement, 30x50 feet, slag roof, pine floors, electric light, plumbing, bond, ornamental iron work.

Store Building, 313 South street, Philadelphia. Owner taking bids due as soon as possible. Architect, private plans. Owner, Samuel Balin, 313 South street, Philadelphia. Brick, steel, cast stone, 3 stories and basement, 21x109 feet, slag roof, maple and pine floors, hot water heat, electric light, metal lath, tile work, rolled steel sash.

Bus Terminal, \$2,000,000. 12th and Filbert streets, Philadelphia. Work contemplated. Owner, Consolidated Bus Company, care Patrick H. Harting, Camden, N. J.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Group of Buildings, Sixth street, Tabor road, Bristol road, Reading Railway, Olney, Pa. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia. Architects, Simon & Simon, Fidelity-Philadelphia Building, Philadelphia. Owners, Proctor & Schwartz, Inc., Seventh and Tabor road, Philadelphia. Brick, reinforced concrete, steel, concrete, carpentry and mill work, granite, demolition, electric work, elevator doors, steam heat, hardware, metal toilet partitions, ornamental iron work, painting, glazing, metal lath, plastering, rolled steel doors, terrazzo work, wood block floors, weather stripping, bond, iron stairs, concrete floors and roof slab, integral waterproofing, limestone, bluestone, iron gratings, kalamein doors, plumbing, hardware, elevator, electric appliance building, 3 stories and basement, 78x66 feet, 78x56 feet, irregular, extension saw-tooth building, 1 story and basement, 61x62 feet.

Patrol House, Twenty-eighth, near Oxford street, Philadelphia. Contract awarded E. C. Durrell, 1713 North Twenty-fourth street,

Philadelphia. Item A, \$5,170. Item B, \$750. Heating, Joseph Rappold, 1917 North Palethorp street, Philadelphia, \$250. Plumbing and drainage, Fred Wackenhut, 2416 Frankford avenue, \$875. Electric, H. S. Mitchell, 1337 McFerran street, Philadelphia, \$175. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia. Brick, reinforced concrete, steel, 1 story, 40x18 feet (plumbing, heating, electric separate bids), Carey built-up roof, cement and composition floors, cast stone, metal lath, rolled steel sash, bond, ornamental iron work, cinder concrete blocks, metal lockers.

Drug Store, \$5,000. 6409 Woodland avenue, Philadelphia. Contract awarded H. P. Schneider, 3713 Old York road, Philadelphia. Architect, private plans. Owners, John H. Wood Co., 126 Market street, Philadelphia. Brick, steel, 1 story, 18x57 feet, slag roof, composition floors, plate glass, plumbing, steam heat, electric light, tile work, metal lath, metal bulks.

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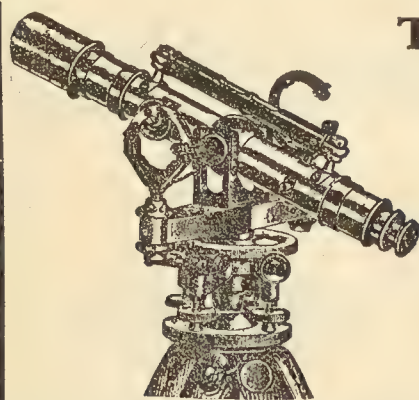
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Building, 41 West Chelton avenue, Philadelphia. Contract awarded Harry Gill, Jr., 2515 Germantown avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, Samuel Emlen, Jr., 38 Maplewood avenue, Philadelphia. Brick, steel, 2 stories and basement, 50x43 feet (plumbing, heating, electric separate bids), slag roof, oak, pine and cement floors, metal lath, bond, ornamental iron work.

Sales and Service Building, 248-54 North Twenty-second street to Crosby and Summer streets, Philadelphia. Contract awarded A. Raymond Raff Contracting Co., 1635 Thompson street, Philadelphia. Architect, E. A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Twenty-second Street Realty Co., care of architect. Brick, steel, architectural terra cotta, 2 stories and basement and mezzanine, 64x133 feet, wing 64x30 feet, gypsum slag roof, cement and pine floors, hollow tile, architectural terra cotta, metal lath, tile work, hollow metal sash, fire doors, bond, metal bulks, ornamental iron work, linoleum floors, metal partitions.

Mill Building (alts.), Edgemont and Clementine streets, Philadelphia. Contract awarded Knox Landers, 1132 Vine street, Philadelphia. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owners, Sutro & Son, on premises. Carpentry and mill work, slag roof, brick work, excavation, cut stone, concrete and cement work, plastering, steel partitions, iron work, iron stairs, tin-lined doors, steel sash, hardware, painting, glazing.

School Building (alts. to Gymnasium), City Line and Sixty-eighth street, Overbrook, Philadelphia. Contract awarded H. E. Grau Co., 2125 Cherry street, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Friends' Central, Dr. Barclay Jones, on premises. Concrete block, stucco, 2 stories add., 18x40 feet, slate roof, maple floors, electric light, metal lath, bond, ornamental iron work.

Residence and Garage, Chestnut Hill, Pa. Contract awarded Charles S. Bowman, Germantown and Willow Grove avenues. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Francis J. Rue, care of architect. Stone, 2½ stories and basement, irregular in size, slate roof, oak, pine, cement floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work.

Residence (alts. and add.), 8051 Stenton avenue, Chestnut Hill, Pa. Contract awarded Monaghan & Losse, 3016 Chestnut street,

Philadelphia. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Charles K. Lukens, 8051 Stenton avenue, Philadelphia. Concrete block, stucco, 2½ stories and basement, 30x16 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work.

Bowling Alley, Southeast Corner Richmond and Bridge streets, Philadelphia. Contract awarded Rumpf & Kohlmeyer, 3543 Germantown avenue. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owners, Charles Lennig Co., on premises. Brick, stucco, 1 story, 21x100 feet, slag roof, cement floors, electric.

Store and Residence (alts.), 605 South Sixth street, Philadelphia. Contract awarded A. & A. Construction Co., 1011 Chestnut street, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Margaret Shapiro, care of J. K. Miller, Northeast Corner Broad and Sansom streets. General interior alterations, plumbing, heating, electric work.

Naval Home, \$2,555. Twenty-fourth and Gray's Ferry avenue, Philadelphia. Architect, private plans. Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia. Owners, United States Government, Bureau of Yards and Docks, Navy Department, Washington, D. C. Plastering, painting, damp-proofing.

Coal Storage Building, \$9,000. East side Broad street, South of Lehigh avenue, Philadelphia. Contract awarded I. S. Grindrod, 10 South Eighteenth street, Philadelphia. Architect, Clarke Dillenback, Twelfth and Market streets, Philadelphia. Owners, George D. Widener, Reading Company, Twelfth and Market streets, Philadelphia. Brick, 1 story, 15 feet 3 inches x 100 feet.

Residence (add.), \$4,000. 6515 Lincoln Drive, Philadelphia. Contract awarded Ralph C. Borthwick, 6511 Woodstock street. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Miss E. Plumer, on premises. Stone, 2 stories add., 12x23 feet, electric work.

Church (alts.), \$3,000. Southwest Corner Lehigh and Memphis streets, Philadelphia. Contract awarded W. R. Dougherty, 1608 Sansom street, Philadelphia. Architect, H. R. Dagit, 1329 Race street, Philadelphia. Owners, St. Ann's Roman Catholic Church, on premises, care of D. Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. General alterations.

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Recreation Building, \$6,500. Southwest Corner Richmond and Bridge streets, Philadelphia. Contract awarded Rumpf & Kohlmeier, 3543 Germantown avenue, Philadelphia. Architect, private plans. Owners, Charles Lennig & Co., on premises. Brick, 1 story, 20x100 feet.

Bank, \$5,000. Northeast Corner Twentieth and Indiana avenue, Philadelphia. Contract awarded Chicago Bronze & Iron Works, 1015 Chestnut street, Philadelphia. Architect, private plans. Owners, Freihofer Baking Company, on premises. 50-000-gallon capacity.

Stores and Offices, \$20,000. 4441 and 4440 Frankford avenue, Philadelphia. Contract awarded Charles M. Greenwood, 3701 North Broad street, Philadelphia. Owner, Oscar M. Steppacher, 1411 Finance Building, Philadelphia. Brick, 2 stories, 64 feet 4 inches x 100 feet, slag roof, electric lighting.

Storage Building, \$6,000. 1011-13-15 Wood street, through to Carlton street, Philadelphia. Contract awarded Lam Bldg. Co., 1001 Wood street, Philadelphia. Architect, private plans. Owners, Schwartzwalder Company, on premises. Brick, 1 story, 40x82 feet, slag roof, cement floors, electric work.

Storage Building, \$12,000. Southwest Corner Seventy-first and Kingsessing avenue, Philadelphia. Contract awarded France & Missar, 6725 Yocum street, Philadelphia. Architect, private plans. Owners, Wilkening Manufacturing Company, on premises. Brick, 1 story, 56x90 feet.

Restaurant Equipment, \$3,500. 1918 Chestnut street, Philadelphia. Contract awarded Finn-Iffland & Co., 1043 Capouse avenue, Scranton, Pa. Owner, Helen W. Levy, on premises.

Residence, \$8,000. West side Seventh street, South of Sixty-fifth avenue, Philadelphia. Contract awarded Harry Goepel, 5619 North Third street, Philadelphia. Architect, private plans. Owner, Donald Horton, 6722 North Fifteenth street, Philadelphia. Stone, 3 stories, 30x40 feet, hardwood and pine floors, hot water heat, electric light.

Residence, \$6,635. 3533 Welsh road, Philadelphia. Contract awarded Joseph F. Flack, 226 Franklin street, Bristol, Pa. Architect, private plans. Owner, Amelia Zizzi, Moro street, Philadelphia. Brick, 2 stories, 18x46 feet, 17x8 feet, hot water heat, electric light, hardwood and pine floors.

Residence and Store (add. and alts.), \$5,000. 2244 West Lehigh avenue, Philadelphia. Contract awarded James T. Murphy, 1721 North Second street, Philadelphia. Architect, private plans. Owners, Brennan Brothers, 2248

West Lehigh avenue, Philadelphia. Brick, 3 stories add., 16x12 feet, general alterations.

Garage (add.), \$4,000. 620-22 South Orianna street, Philadelphia. Contract awarded D. J. Pappano, Southeast Corner Thirteenth and Reed streets, Philadelphia. Architect, private plans. Owner, Ethel Bockel, 317 Bainbridge street, Philadelphia. Brick, 1 story add., 49x37 feet, slag roof, cement floors.

Store and Residence, \$4,000. 1437 Bainbridge street, Philadelphia. Contract awarded Stein & Lissansky, 536 Tasker street, Philadelphia. Architect, private plans. Owner, Abe Troopin, on premises. Brick, 2 stories, 14x52 feet, 12x24 feet, slag roof, hot water heat, electric light.

Stable, South side Dupont street, East of Lawnton avenue. Contract awarded G. L. & J. K. Callahan, 473 Oriole street, Philadelphia. Owner, Louis B. Grabowsky, Third and Brown streets, Philadelphia. Brick, 1½ stories, 46x104 feet.

Miscellaneous Work (Sewers). Contracts awarded. Owners, Department of Public Works, Bureau of Engineers, City Hall, Philadelphia. G, Wyoming to Ramona, A. Frunzi, 513 High street, Philadelphia, \$6,979. Greenway, Fifty-ninth to Sixtieth street, Sabitini, Vallone & Co., 1720 South Chadwick street, \$3,425.50. Hegerman, Ronnius, Northwest of Torresdale, etc., M. J. Driscoll, 100 Apsley street, Philadelphia, \$29,751. Eightieth, Island avenue, Seventy-fifth avenue, Laycock avenue, etc., Thomas Burke Co., 1303 Widener Building, Philadelphia, \$235,386.90.

Manufacturing Building (add.), \$4,600. 4949 Mulberry street, Philadelphia. Contract awarded Geo. C. Good, 5649 N. Mascher st., Philadelphia. Architect, private plans. Owners, Allen Locke Hosiery Co., on premises. Brick, one story, addition, 10x67 feet.

School (alts.), Germantown Friends School, Coulter street, Germantown, Philadelphia. Contract awarded Charles Siber, 527 Carpenter street, Germantown. Architect, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Friends School, Coulter street, Germantown, Philadelphia. Smoke screen.

Mill (add.), \$25,000. 857 East Girard ave., Philadelphia. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia. Architect, private plans. Owners, E. Jansson Co., on premises. Brick, 3 stories, addition, 116x88 feet.

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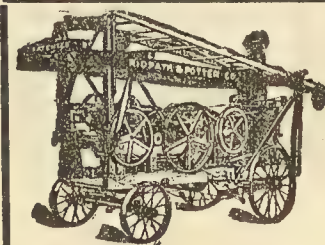
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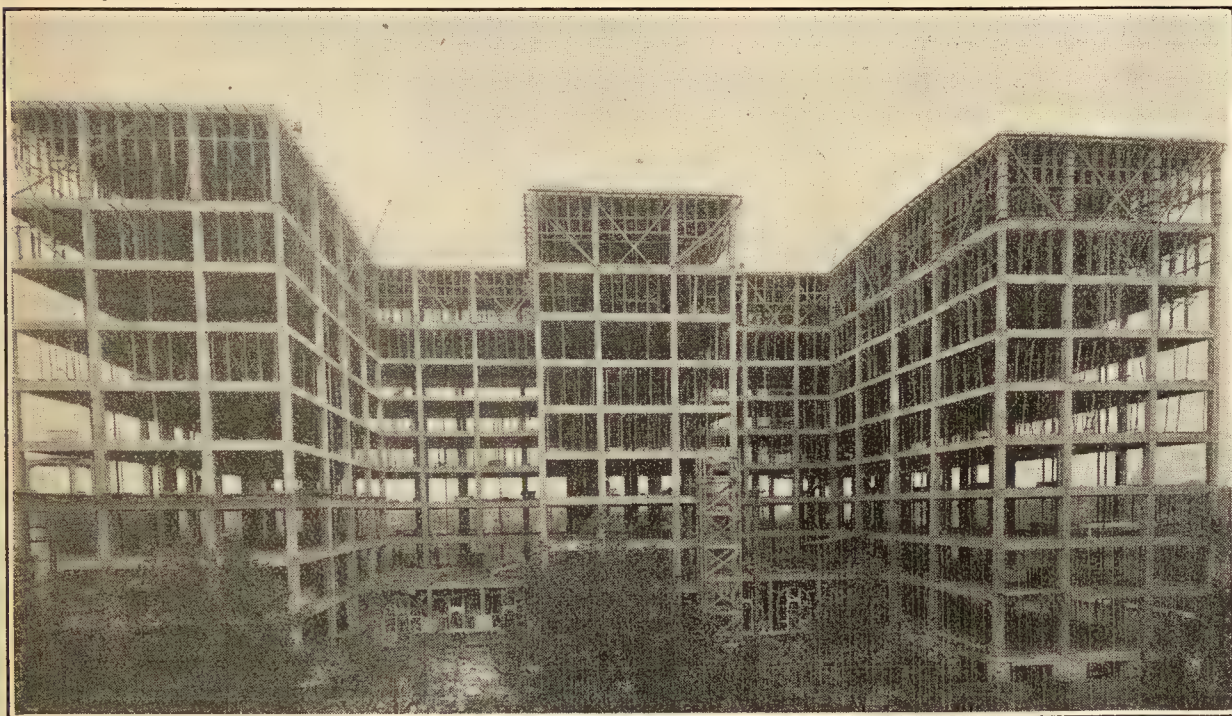
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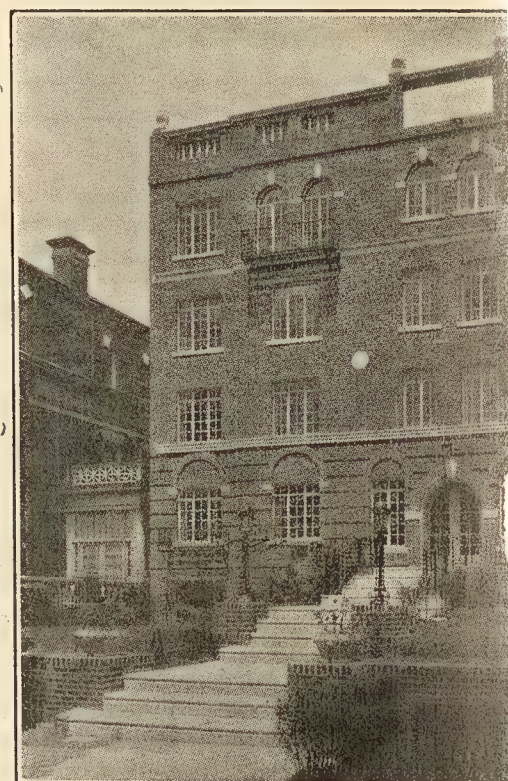
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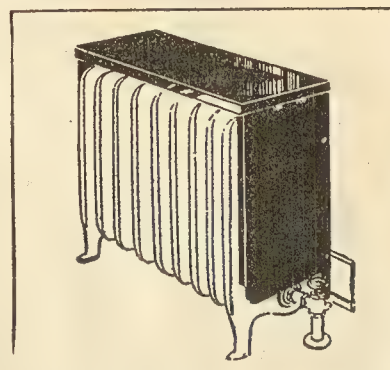
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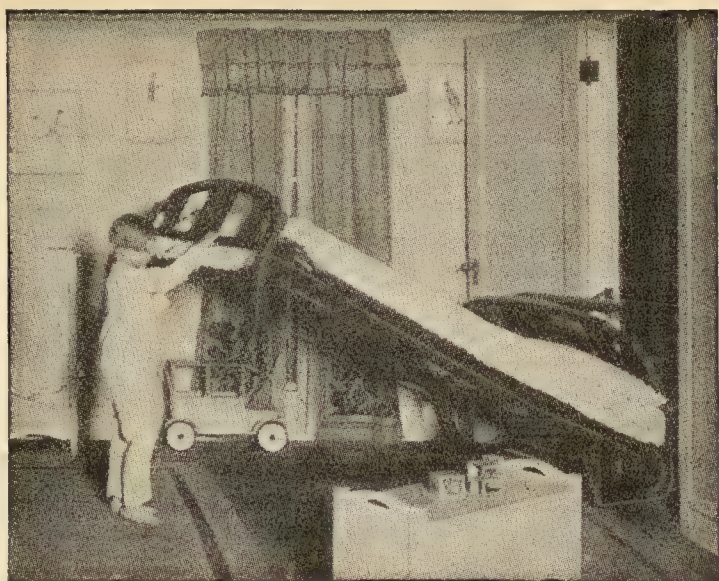
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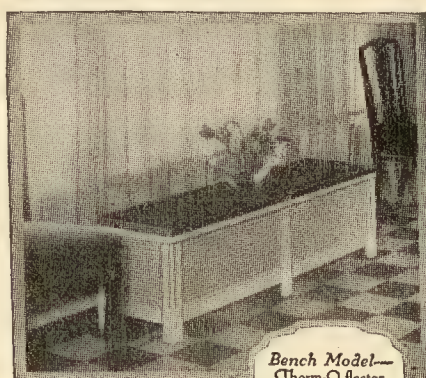
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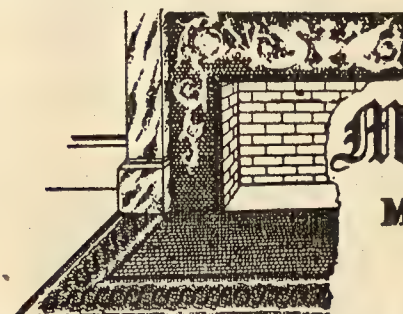
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Pennsylvania Construction News

Residence and Garage and Farm Building, Gladwyne, Pa. Plans in progress. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, Rodman E. Griscom, Land Title Building, Philadelphia. Stone, 2½ stories, slate roof, hardwood floors.

Church, Parkside, Pa. Plans in progress. Architect, Howard C. Roberts, 1 Madison avenue, Lansdowne, Pa. Owners, Parkside Methodist Episcopal Church, Rev. C. F. Kulp, 22 West Cheltenham avenue, Parkside, Pa. Stone, 1 story, 30x70 feet.

Residences (4), \$25,000 each. Overbrook Hills in Merion, Pa. Plans in progress. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, McWilliams & Maloney, on premises. Stone, frame, 2½ stories, irregular in size, shingle roof, hardwood floors, central heat, electric light.

Operation of Residences, number not decided. Drexel Hill, Pa. Plans in progress. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, F. P. Meagher, Drexel Hill, Pa. Brick, frame, 2 stories, various sizes, 2-car garage, hardwood floors, cement floors, hot water heat, electric light, tile work.

Store, Apartment and Garage, Allentown, Pa. Plans in progress. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, A. Dubin, care of architect. Brick, 2½ stories, 30x60 feet, asphalt roof, hardwood and concrete floors, electric light, tile work.

Residence and Garage, near Phoenixville, Pa. Plans in progress. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Gerry W. Cox, 1421 Chestnut street, Philadelphia. Stone, 2½ stories, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Y. M. C. A. (alts.), \$25,000. Seventh and Edgemont streets, Chester, Pa. Work contemplated. Owners, Y. M. C. A., Elson Sheffield, general secretary, on premises. Renovation of dormitory, new locker system, new floor in

gymnasium, roof laundry, repainting and re-decorating inside and outside of building.

Residence, Yeadon, Pa. Plans in progress. Too early for details. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Roy A. Gotshall, 411 Main street, Darby, Pa.

Court House (alts.), Wilkes-Barre, Pa. Plans in progress. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, District Attorney Office, Court House, Wilkes-Barre, Pa. General alterations (interior).

Residence, Sugartown road, opposite Berkeley road, Devon, Pa. Plans in progress. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owner, Alfred P. Lohman, Haverford, Pa.

Residence and Garage, Merion, Pa. Plans in progress. Too early for details. Owner will build. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, John J. Marshall, Merion, Pa. Stone, 2½ stories.

Residence and Garage, Penfield, Pa. Owner taking sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, H. J. McLean, 521 South Fifty-second street, Philadelphia. Frame and brick, 2½ stories, 25x35 feet, 20x22 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Stores (3) and Apartment, Drexel Hill, Pa. Plans in progress. Owner will take sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Henry J. McLean, 521 South Fifty-second street, Philadelphia. Brick, 2 stories, 18x60 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work, plate glass, metal bulks.

Church (alts. and add.), Nanticoke, Pa. Plans in progress. Architect will take bids. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Holy Trinity Church, Rev. R. J. Wieziolowski, Nanticoke, Pa. Brick, veneer, 1 story, 126x68 feet, slate roof, wood floors, electric light.

Residence, Manoa, Pa. Plans completed. Owner taking bids. Architect, Henry L. Reinhold, Jr., 10 South Eighteenth street, Philadelphia. Owner, J. C. McClenahan, Manoa, Pa. Interior alterations.

Building, Bywood avenue, Upper Darby, Pa. Architects taking bids due July 11th, A. M. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Springfield Realty Co., care of architect.

Factory, Minersville, Pa. Owners taking bids due July 6th. Architect, W. D. Shellenberger, Williamsport, Pa. Owners, H. D. Bob Co., 40 Leonard street, New York City. Reinforced concrete, brick, steel, 5 stories and basement, 80x150 feet, slag concrete and gypsum roof, maple floor, elevators, painting, metal lath, rolled steel sash, rolled steel and kalamein doors (plumbing, heating, electric reserved).

Residence, Morris Heights, Pa. Architect taking bids due July 10th. Architect, Walter Hankin, 224 East Hanover street, Trenton, N. J. Owner, Walter Griggs, care of architect. Frame, 2½ stories, 34x34 feet, wood shingle roof, hardwood floors, hot water heat, electric light, tile work.

School (alts. and add.), Frackville, Pa. Owners taking bids due July 8th at noon. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owners, St. Joseph's Roman Catholic Church, Rev. N. L. Killian, 14 North Nice street, Frackville, Pa. Brick, 3 stories, 50x17 feet, composition roof, concrete and asphalt floors, electric work, plumbing, steel sash, iron stairs.

Consolidated Grade School, Green Lane, Pa. Owners taking bids due July 5th, 8 P. M. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Joint Board of Green Lane and Marlborough Township School, A. H. Van Fossen, Green Lane, Pa. Brick, cast stone, steel, 1 story and basement, 120x54 feet (plumbing, heating, electric separate bids), slag roof, maple floors, metal lath, bond, ornamental iron work.

Bank, Scranton, Pa. Architect taking bids due July 9th. Architect, D. H. Morgan, Union Bank Building, Scranton, Pa. Owners, East Scranton State Bank, care of E. H. Hausser, 1417 Ash street, Scranton, Pa. Limestone, steel, 22 feet high, 35x60 feet, slag roof, marble floors, electric work, tile, marble, casement windows, bronze.

Cottage and Residence (alts. and add.), Abrams Lane, Villa Nova, Pa. Architect taking bids due July 8th. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, R. L. Montgomery, on premises. Frame, stone, 2½ stories and basement, 21x15 feet, 41x29 feet, shingle roof, oak and pine floors, demolition, brick work, carpentry and mill work, hot water heat, electric light, tile work, metal lath, bond, ornamental iron work, plastering, painting, glazing, plumbing, slate roof.

Residences Nos. 8-9, Merion Golf Manor, Haverford Township, Delaware County, Pa. Owners taking bids due July 6th. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, William H. Wilson & Co., 1617 Walnut street, Philadelphia. Stone, steel, 2½ stories and basement, 54x33 feet (plumbing, heating, electric, weather stripping reserved), shingle roof, oak and pine floors, hollow tile, painting, glazing, metal lath, tile work, bond, ornamental iron work, excavation.

School, 695 North Main street, Wilkes-Barre, Pa. Architect taking bids due July 6th. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, St. Mary's Greek Catholic Church, Rev. Nicholas Chopey, 695 North Main street, Wilkes-Barre, Pa. Brick, steel, 2 stories and basement, 61x124 feet, built-up roof, yellow pine floors, hollow tile, roof ventilators, dampproofing, steel partitions, iron stairs, fire doors, steel sash, metal lath, electric light (heating, plumbing and electric separate).

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Grade School, Wilkes-Barre Township, Pa. Owners taking bids due July 15th. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Township School Board, Mr. Shimdel, secretary, Georgetown, Pa. Brick veneer, steel, 2 stories, 58x54 feet, Barrett roof, maple floors (heating, plumbing and electric separate).

Residence and Garage, State road and Diamond Rock road, Phoenixville, Pa. Architects taking bids due July 15th. Architects, Mellor & Meigs, 205 South Juniper street, Philadelphia. Owner, A. P. Scull, 3rd, Phoenixville, Pa. Reinforced concrete, stone, 104x28 feet, wing 40x20 feet, garage 30x20 feet, slate roof, composition, oak, pine, linoleum floors, painting, glazing, cork tile floors, dumb waiters, metal lath, tile and marble work, bond, casement windows, ornamental iron work, flag-stone.

Residence (alts. and add.), Conshohocken, Pa. Architect taking bids due July 5th at noon. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, George T. Lukens, on premises. Cinder block, stucco, 2½ stories and basement, 22x24 feet, slate roof, oak and pine floors, plumbing, screens, hot water heat, electric light, metal lath, tile work.

Store Building, State and Burmont roads, Upper Darby, Pa. Architects taking bids. Architects, Tunis & Baker, 1600 Arch street, Philadelphia. Owner, L. Carl Kenney, on premises. Brick, steel, cast stone, 1 story, 75x42 feet, slag roof, oak and pine floors, metal lath, tile and marble work, bond, ornamental iron work, plate glass.

Senior High School, Clifton avenue, South of Parker avenue, Collingdale, Pa. Architect taking bids due July 12th, 5 P. M. (Daylight Saving Time). Architect, Clarence Brazier, Crozer Building, Chester, Pa. Owners, School District of the Borough of Collingdale, Pa. Brick, reinforced concrete, steel, 2 stories and basement, 120x56 feet (plumbing, heating, electric separate bids), slag roof, cement and oak, pine floors, safety treads, painting, glazing, caulking, waterproofing and dampproofing, steel partitions, metal lath, fire doors, bonds, iron stairs, ornamental iron work, area gratings, linoleum.

School (add.), Darby Township Junior High School, Hook road near Sharon avenue, Sharon Hill, Pa. Owners taking bids due July 10th,

8 P. M. (Daylight Saving Time). Certified check, 5 per cent. Architect, Mahlon J. Bye, Summit avenue, Primos, Pa. Owners, Darby Township School District, H. A. Fisher, secretary, Darby Township, Pa. Work to be finished September 1, 1929.

Apartment (10-family) and Store, East Third street, Bethlehem, Pa. Owner about ready for bids. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, A. H. Phillips, 416 East Third street, Bethlehem, Pa. Brick, steel, 3 stories, 30x140 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile, steel sash, copper work, steel sash, cast stone.

Double Residence, Bethlehem, Pa. Architect about ready for bids. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, John Peters, care of architect. Brick, 2½ stories, 36x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Residences and Garages (28), Cynwyd, Pa. Owner will build. Work on first four started. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, L. H. Greenhouse, Packard Building, Philadelphia. Stone, steel, frame, 2½ stories, 28x40 feet, 1 story, 20x24 feet, slate roof, hardwood floors, cement floors, hot water heat, electric light, tile work.

Church and Sunday School, Bangor, Pa. Architect will be ready for bids July 8th. Architect, A. N. Dobbins, 1718 Cherry street, Philadelphia. Owners, First Methodist Episcopal Church, Rev. Charles Lowell, secretary of Building Committee, L. Curl, Bangor, Pa. Stone, 1 story and basement, 2 stories and basement, slate roof.

Synagogue, 242 South Franklin street, Wilkes-Barre, Pa. Architect will be ready for bids next week. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Ohabzedek Hebrew Congregation, Rabbi I. M. Davidson, 300 East South street, Wilkes-Barre, Pa. Brick, steel, 1 story and basement, 68x120 feet, slag roof, hardwood floors, hollow tile, roof ventilators, waterproofing and damp-proofing, architectural terra cotta, bronze work, ornamental iron, tile and marble, metal lath, electric light.

Mausoleum, Wilkes-Barre, Pa. Architects will be ready for bids in three weeks. Architects, Knapp & Bosworth, Town Hall Building, Wilkes-Barre, Pa. Owners, care of architects. Granite, reinforced concrete, steel,

brick, 2 stories, 177x49 feet, slag, pitch and felt roof, marble floors, hollow tile, metal roof ventilators, waterproofing and dampproofing, bronze doors and grills, brass pipe, marble stairs, bond, tile, marble, steam heat, electric work.

Office Building (alts.), Scranton Electric Building, Scranton, Pa. Architects ready for bids. Architects, E. H. Davis & George M. D. Lewis, Board of Trade Building, Scranton, Pa. Owners, Scranton Electric Company, Board of Trade Building, Scranton, Pa. General interior alterations.

Fire House, Greenleaf and Bayard streets, Allentown, Pa. Architects will be ready for bids next week. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Keystone Fire Company, Allentown, Pa. Brick, structural steel, 2 stories, 40x65 feet, Spanish tile roof, electric light, linoleum, yellow pine and terrazzo floors, cast stone, casement windows.

Residence, Allentown, Pa. Engineer taking general and sub-bids due no set date. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, Irwin Peters, care of engineer. Stone, 1 story, 60x41 feet, concrete and tile roof, hardwood floors, electric light, tile work.

Sunday School, Quakertown, Pa. Architect will take sub-bids in one week. Architect, Charles M. Talley, Telford, Pa. Owners, St. John's Lutheran Church, Rev. Fitting, Quakertown, Pa. Brick, 2 stories, 60x75 feet, built-up roof, pine floors, plumbing, hot water heat, electric light.

Residences (14), Dorset Lane, Overbrook Hills in Merion, Merion, Pa. Owners taking sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, McWilliams & Maloney, Merion, Pa. (Overbrook Hills in Merion). Stone, frame, 3 stories, 18½x50 feet, shingle roof, hardwood floors, two-car garage, central heat, electric light, tile work.

Residence and Garage, \$25,000. Drexel Park, Pa. R. Cope, Drexel Hill, will build and is taking sub-bids. Architect, H. Edward Williams, Drexel Hill, Pa. Owner, Dr. W. F. Spaeth, Drexel Hill, Pa. Brick, clapboard, 2½ stories, 30x77 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Miscellaneous Work, Norristown, Pa. Owners taking bids due July 16th, 4 P. M. Own-

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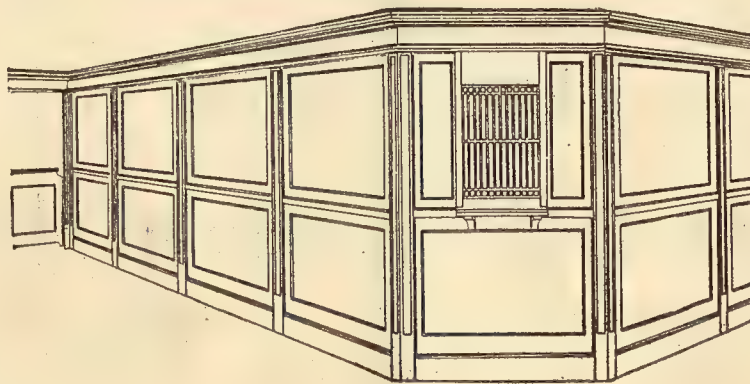
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ers, Board of Directors, Board of Education, H. R. Kratz, Norristown, Pa. Electric wiring and fixtures, furniture, home economics supplies and equipment. Certified check, 5 per cent. over \$300.

Miscellaneous Work, Bridgeport, Pa. Owners taking bids due July 8th, 8 P. M. (Daylight Saving Time). Owners, School District, Joseph D. Griffin, secretary, Seventh and Ford streets, Bridgeport, Pa. Painting exterior of high school building, interior walls and wood work of Holstein street building, furnish equipment and furniture for new addition to high school.

Contract No. 2, Chester, Pa. Owners taking bids due July 16th, 2 P. M. (Daylight Saving Time). Engineer, City Engineer, and R. C. Wheeler, consulting engineer, 36 State street, Albany, N. Y. Owners, City of Chester, G. J. Hunter, Superintendent of Streets and Public Improvements, Chester, Pa. Deposit, \$10, refunded. Surety bond, 50 per cent. Copy of advertisement must accompany proposal. C. I. pipe inverted syphon in bed of Chester River, outlet chamber, curved conduit and necessary equipment for operating of syphon. Approximately 1,100 cubic yards excavation earth,

500 cubic yards excavation rock, 265 cubic yards first class concrete, 70 cubic yards second class concrete, 31,000 pounds metal reinforcement, 40 tons 30-inch-24-inch C. I. pipe and specials, stope logs, sluice gates, pumps, wire fence, tile, etc.

Construction of Second Street Intercepting Sewer. Contract No. 6, Sec. A, Chester, Pa. Owners taking bids due July 16th, 2 P. M. (Daylight Saving Time). Engineer, City Engineer, and R. C. Wheeler, consulting engineer, 36 State street, Albany, N. Y. Owners, City of Chester, G. J. Hunter, Superintendent of Streets and Public Improvements, Chester, Pa. Deposit, \$10, refunded. Surety bond, 50 per cent. Copy of advertisement must accompany each proposal. Approximately 290 lineal feet 8-inch vitrified pipe sewer, 730 lineal feet 10-inch, 85 lineal feet 12-inch, 1,725 lineal feet 20-inch, 15,10 lineal feet 27-inch precast reinforced concrete, 1,515 lineal feet 30-inch, 555 lineal feet 36-inch, 85 lineal feet 10-inch, C. I. pipe, 45 lineal feet 30-inch, 28 manholes, 3,350 cubic yards rock excavation, regulator and tide gate, chambers, street railway crossing, repaving, resurfacing, etc.

Bridge, \$90,000. East Ninth street, Chester, over Ridley Creek, Pa. Owners taking bids due July 15th. Engineer, George Wright, Delaware County, Media, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Reinforced concrete, granite facing, two-foot ballastard on either side, two 60-foot approaches, steel fencing. Carl R. Camp, 10 South Eighteenth street, Philadelphia; Mundy Paving Co., 226 South Warnock street, Philadelphia; Whitaker & Diehl, Harrisburg, Pa.

New Power Plant Building, Schuylkill Haven, Pa. Owners taking bids due in Town Hall, July 8th, 7 P. M. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Borough of Schuylkill Haven, J. A. Harmer, Schuylkill Haven, Pa. Curtis Company, 10 South Eighteenth street; J. M. Yardley, 1700 Walnut street, Philadelphia, figuring.

Bridge, \$90,000. East Ninth street, Chester, over Ridley Creek, Pa. Owners taking bids due July 15th. Engineer, George Wright, Delaware County, Media, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Stone, faced arch, 130-foot span, 60 feet wide.

Community Laundry, Drexel Hill, Pa. Plans in progress. Architect, H. O. Ziegler, Drexel Bldg., Philadelphia. Owner, George Robinson, Drexel Hill, Pa. Brick, 2 stories, 80x120 feet, slag roof, cement floors, electric light.

Church, Superstructure, 22nd and Edgemont streets, Chester, Pa. Ready for bids. Architect, J. B. Thomson, 1321 Arch street, Phila.

Owner, Nativity Lutheran Church, A. R. Cochran, 173 East Mowry street, Chester, Pa. Brick, cast stone, one story, 50x60 feet, slate roof, maple floors, steam heat, electric light, plumbing.

Hospital, \$150,000. Fountain Springs, Pa. Work contemplated. Owner, Sisters of St. Francis, Glenn Riddle P. O., Glen Riddle, Pa. Brick, steel, concrete.

Electric Work, Nether Providence School, Wallingford, Pa. Owner taking new bids due July 9th. Architect, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Nether Providence Township, C. Lewis, Media, Pa.

Mechanical Equipment, Fallsington School, Bucks Co., Pa. Owner taking bids due July 19th, 8 P. M. (D. S. T.) Architect, Thos. B. Stockham, Morrisville, Pa. Owner, Board of Education, Township of Falls, Bucks Co., Howard W. Scatterthwaite, Secretary, Fallsington, Pa. Heating, ventilation, wiring and plumbing. Deposit \$25.00, refunded; bond, certified check 10 per cent.

School, Twin Oaks, Pa. Owner taking bids due July 15th, 5 P. M. Architect, F. C. Watson, Chester, Pa. Owner, Upper Chichester Township School Board, Mrs. M. H. Young, Boothwyn, Pa. Electric wiring and light system installation. Certified check 5 per cent. Deposit \$20.00; refund \$15.00. Plumbing and heating low bidder: Burton L. Marker, Chester, Pa.

Miscellaneous Work, Whitmarsh School District. Owner taking bids due July 12th, 8 P. M., D. S. T. Owner, Whitmarsh School Board, W. J. Davis, Secretary, 1531 Fayette street, Conshohocken, Pa. Fencing for Spring Mill School, 600 feet Stewart galvanized steel fence 3-5 feet high, with 2-12 feet double gate, corner post, etc. Also dismantling two portable school buildings on Spring Mill School grounds; one to be re-erected on Barren Hill School grounds and other to be stored in Spring Mill School house. Details from I. W. Horne, principal of Barren Hill School, or by mail to Lafayette Hill P. O. Bond.

Schools, Chain street; Hartranft street, Norristown, Pa. Owner taking bids due July 19th, 4 P. M. Architect, E. Lane Crawford, 509 Swede street, Norristown, Pa. Owner, School Board of Norristown, H. R. Kratz, DeKalb and Oak streets, Norristown, Pa. Deposit \$10.00; certified check 5 per cent. Sundry interior and exterior repairs, including fire escapes, fire doors and fire partitions.

Factory, Warehouse and Office, \$50,000. Ford and Washington streets, Norristown, Pa. Contract awarded F. R. Heavner, Norristown, Pa. Architect, private plans. Owner, Norristown Magnesia & Asbestos Co., on premises. Brick, steel, one story, 360x96 feet; 2 story wing, 32x46 feet, asphalt roof, cement and

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maple floors, D. Lupton steel sash (heating, plumbing, electric reserved).

Fire House (alts.), \$3,500. West Hector street, Conshohocken, Pa. Owner taking bids due July 15th at noon. Plans by Borough Manager Herbert, Conshohocken, Pa. Owner, Washington Fire Co., John Herron, president, Conshohocken, Pa. Alterations and construction of doors, lobby and lobby entrance, tile work, new stairwork, general alterations. Plans may be secured from the Fire Company headquarters.

County Home (Hospital add.), Media, Pa. Work contemplated. Architect, Geo. S. Idell, 1510 Chestnut street, Philadelphia. Owner, Delaware County Home, care Jas. J. Skelly, director, Media, Pa.

Administration and Mechanical Building, near Doylestown, Pa. Ready for bids in 10 days. Architect, Silverman & Levy, 13th and Chestnut streets, Philadelphia. Owner, National Farm School, S. B. Samuels, Doylestown, Pa., and J. B. Allman, 1522 Chestnut street, Philadelphia. Brick, 2 stories, 50x100 feet.

Pennsylvania Contracts Awarded

Residences and Garages (2), \$25,000 each. Carroll Park, Overbrook, Pa. Contract awarded John E. Kearney, Wynnewood, Pa. Architect, private plans. Owner, Benj. L. Carroll, Packard Bldg., Philadelphia. Stone, frame, 2½ stories and bas., irregular in size, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond ornamental iron work.

Garage, \$60,000, Ardmore, Pa. Contract awarded Conneen Construction Company, 770 South Schuylkill avenue, Philadelphia, Pa. Architect, A. Burton Stanhope and C. F. Bennett, Equitable Bldg., Wilmington, Del. Owner, Cairns & Mahon, Ardmore, Pa. Semi fire-proof, 2 stories, 100x160 feet, composition roof, concrete floors, unit heat, electric light, steel sash, fire doors.

Residence (add.), Railroad avenue, Haverford, Pa. Contract awarded E. R. Hall, 34 South 17th street, Philadelphia. Architect, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Layton B. Register, Haverford, Pa. Frame, 2 stories, 13x15 feet, shingle roof, pine floors.

Inn (add.), Buck Hill Falls, Pa. Contract awarded Turner Construction Co., 1700 Walnut street, Philadelphia. Architect, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Buck Hill Farms Inn, on premises. Stone, steel, 5 stories and basement, 60x140 feet, slate roof, cement and oak floors, steam heat, electric light, metal lath, tile work, bond, ornamental iron work.

South Office Building No. 2, Capitol Park, Harrisburg, Pa. Contract awarded Nelson Pedley Construction Co., 1510 Chestnut street, Philadelphia. Architect, Gehron & Ross, 101 Park avenue, New York City. Owners, Commonwealth of Pennsylvania, J. S. Fisher, Governor, Department of Property and Supply, B. E. Taylor, Secretary, Harrisburg, Pa. Limestone, steel, reinforced concrete, granite, 6 stories and basement, 472x81 feet, excavation, concrete and cement floors and roof, integral and membrane waterproofing, dampproofing, spandril waterproofing, brick work, caulking, terra cotta blocks, ornamental terra cotta, metal lath, plastering, imitation caen stone, cork insulation, sound deadening, marble, tile, terrazzo work, mastic floors, linoleum, copper roof, tile roof, steel windows (Campbell metal window or equal), hollow steel door and trim,

oak floors, hardware, bronze work, door and sash, iron work, stairs and gratings, steel equipment, mural painting.

Church and School, North Main street, Wilkes-Barre, Pa. Contract awarded F. J. Cuppels, Cresson, Pa. Architect, J. J. Howley, Traders' Bank Building, Wilkes-Barre, Pa. Owners, St. John the Evangelist Roman Catholic Church, Rev. D. J. Kane, 115 North Main street, Plains, Pa. Brick, steel, 1 story, 130x65 feet, gypsum roof, concrete and oak floors, hollow tile, safety treads, art glass, steel sash, tile, marble, metal lath, ornamental iron.

Gas Service Station, Wilkes-Barre, Pa. Contract awarded Frank Scarget, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, High Grade Gas & Oil Co., 108 East Northampton street, Wilkes-Barre, Pa. Brick, concrete block, 1 story, 15x12 feet, asbestos roof, concrete floors, electric light.

School, West Reading, Pa. Contract awarded Wyomissing Development Co., 832 Penn avenue, Wyomissing, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Roman Catholic Church, Rev. J. Wachter, Wyomissing, Pa. Brick, steel, 2 stories and basement, 120x60 feet, 45x70 feet, Barrett A. A. roof, linoleum and pine floors, safety treads, steel sash, electric work.

Residence, Allentown, Pa. Contract awarded Arthur Klepinger, 325 North Arch street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Carl W. Appel, 140 South Fourteenth street, Allentown, Pa. Brick, limestone, 2 stories, 37x52 feet, asbestos shingle roof, oak floors, electric work, tile, limestone, casement windows.

Model Home, 216 North Twenty-eighth street, Allentown, Pa. Contract awarded Roscoe Jarrett, 2029 Highland avenue, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Morning Call, 101 North Sixth street, Allentown, Pa. Brick, 2½ stories, 48x55 feet, slate roof, hardwood floors, tile work, electric work.

Grade School, \$13,275. Twin Oaks, Pa. Contract awarded Peter Lawrence, Woodlyn, Delaware County, Pa. Architect, F. C. Watson, Crozer Building, Chester, Pa. Owners, Upper Chichester Township School District, G. M. Snyder, Marcus Hook, Pa. Brick, steel, reinforced concrete, 1 story and basement, 98x34 feet, asphalt roof, cement and maple floors,

steel sash, bond, ornamental iron work (heating, plumbing, electric separate).

School, West Chester pike above Media Lane road, Newtown Square, Pa. Contract awarded J. C. Mahoney, Drexel Hill, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Anastasia Church, Rev. Edw. G. Werner, on premises. Stone, steel, 2½ stories and basement, 80x110 feet, slag roof, maple, cement floors, steam heat, electric light, metal lath, bond, ornamental iron work.

Station and Waiting Room, Chester pike line near Main street, Darby, Pa., \$11,000. Contract awarded William Provost, Jr., Chester, Pa. Architect, private plans. Owners, Southern Pennsylvania Traction Company, care of builder. Brick, concrete, 1 story, 50x30 feet, slag roof, cement floors, electric.

Residence and Garage, Lynmere road, Bryn Mawr, Pa. Contract awarded J. Howard Robert, Lansdowne, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, G. Herbert Taylor, 1518 Walnut street, Philadelphia. Stone, clapboard, 2 stories, 100x40 feet, shingle roof, wood deck roof, oak, pine and cement floors, hot water heat, electric light.

Garage (add.), Law and Court streets, Allentown, Pa. Contract awarded Hughes Foulkrod Co., 1505 Race street, Philadelphia. Architects, Jacoby & Everett, Allentown, Pa. Owners, Central Motoramp Garage, on premises. Brick, steel, 4 stories and basement, 100x122 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash.

Residence and Garage, Panorama and Mt. Pleasant road, Villa Nova, Pa. Contract awarded R. C. Ballinger Co., 925 Walnut street, Philadelphia. Plans in progress. Too early for details. Architects, Mellor & Meigs, 201 South Juniper street, Philadelphia. Owner, W. Curtis Bok, Morris Building, Philadelphia. Stone, 2½ stories and basement.

Factory (add.), Sunbury, Pa. Contract awarded Brosious Lumber Company, Sunbury, Pa. Architect, W. D. Shollenberger, 11 West Fourth street, Williamsport, Pa. Owners, Sunbury Industrial Building, Inc., Sunbury, Pa. Brick, steel, reinforced concrete, 3 stories and basement, 188x90 feet, built-up roof, maple floors, composition floors, iron stairs, rolled steel doors, elevator, steel sidewalk sash, reinforced concrete, wood piles.

Residence and Garages (4), Swarthmore, Pa. Contract awarded Elmer K. North, Media, Pa. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Louis Coles

THOS. J. MALIA METAL WEATHER STRIPS PORCH ENCLOSURES WOOD, BRONZE AND ROLLING SCREENS CAULKING

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Emmons, Swarthmore, Pa. Stone, frame, 3 stories, 26x42 feet, 1 story, 18x22 feet, shingle roof, hardwood and cement floors, hot water heat, electric light, tile work.

Club House (alts. and add.), Lansdowne, Pa. Contract awarded T. S. Fetter, 3312 Lancaster avenue, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Twentieth Century Club, Lansdowne, Pa. Plastering, carpentry and mill work, painting, glazing, hardware, tile work, brick work.

Residence and Garage, Hilltop road, Noble, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Charles S. Redding, Jenkintown, Pa. Stone, 2½ stories and basement, 28x33 feet, wing 48x20 feet, garage 20x24 feet, oak, pine and cement floors, slate roof (plumbing, heating, electric, tile reserved), bond, excavation, plastering, flagstone, caulking, iron work, metal lath.

School (alts.), Shenandoah, Pa. Contract awarded John J. O'Hearn, Shenandoah, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Shenandoah School Board, Dr. N. C. Brennan, President, 13 South Main street, and J. D. Creary, Secretary, South West street, Shenandoah, Pa. General alterations, pine floors, concrete work, iron work, new plumbing, electric work, heating, blackboards.

Garages (6), Jenkintown, Pa. Contract awarded Roy Randall, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Dr. E. T. Quinn, Jenkintown, Pa. Brick, 1 story, 54x20 feet, slag roof, cement floors, electric light.

Residence, Union street, Kennett Square, Pa. Contract awarded H. L. McLimans, Avondale, Pa. Architect, William J. Corcoran, West Chester, Pa. Owner, J. Thompson, care of architect. Brick, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile work.

Bus Terminal, West Chester, Pa. Contract awarded E. L. Graff, West Chester, Pa. Architect, William J. Corcoran, West Chester, Pa. Owners, Chester Valley Bus Line, on premises. Repair facilities building, pits reinforced concrete.

Bridge Between Buildings No. 6-No. 8, and Alterations to Elevator Hatchway. Bridgeport, Pa. Contract awarded Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, James Lees & Sons, Bridgeport, Pa. Brick work, rolled steel sash, concrete work, excavation, slag roof, corrugated metal siding.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Northumberland County, R-1, A-5034, Lower and Upper Augusta Townships. One course reinforced concrete. J. M. Hutchinson & Narehood Brothers, Altoona, Pa., \$106,247.46.

Indiana County, R-63, Sec. 4, Rayne Township. One course reinforced concrete. L. F. Moreau, Indiana, Pa., \$20,299.27.

Lehigh County, A-6217, Hanover Township. One course reinforced concrete. George Hardner, Lentz Building, Allentown, Pa., \$60,566.80.

Lycoming County, R-20, Sec. 8, Lewis and McIntyre Townships. One course reinforced concrete. O. P. Bell, Sunbury, Pa., \$268,235.97.

Mifflin County, R-192, Brown Township. Grading and drainage. A. G. Andrew Manufacturing Co., Tyrone, Pa., \$48,976.93.

Warren County, R-95, A-4892, Sheffield Township. One course reinforced concrete. Beck Construction Co., Warren, Pa., \$53,391.88.

New Jersey Construction News

State Street Bridge Equipment, Camden, N. J. Owner taking bids due July 10th, 11 A. M., S. T. Engineer, B. M. Schmucker, Court House, Camden, N. J. Owner, Camden County, C. Leonard Brehm, Chairman of Bridge Commission, Camden, N. J. Structural repairs, furnish and install operating machinery. Certified check 10 per cent.

Water Mains, Hammonton, N. J. Owner taking bids due July 11th 7 P. M., S. T. Engineer, Joseph A. Baker, Hammonton, N. J. Owner, Town of Hammonton, Mrs. M. E. Wil-

son, Secretary, Hammonton, N. J. Approximately 155 ft. 6 inches water main, appurtenant work.

Hotel, Pinewald, N. J. Owner taking sub-bids. Architect, W. L. Olter Jevsky, 130 W. 42nd street, New York. Owner, W. Messina, 205 Fox Building, Philadelphia. Brick, steel, reinforced concrete, 10 stories, 231x55 feet (roofing res.), steam heat, electric light, oil burners, tile, marble and terrazzo work, cement and linoleum floors, 2 passenger and 1 service elevators, metal lath, 700 tons reinforced steel, 3,600 barrels of cement; 900,000 face bricks, iron stair, ornamental iron work, cast stone, membrane waterproofing, kitchen equipment.

Office Building, Fifth and Federal streets, Camden, N. J. Work contemplated. Owners, Camden Fire Insurance Association, Elwood J. Thomson, Secretary and Treasurer, on premises.

Hotel, States avenue, Atlantic City, N. J. Plans in progress. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Arris Realty Co., care of architect. Semi-fireproof, 6 stories, 46x130 feet, composition roof, hardwood floors, hollow tile, elevators, safety treads, roof ventilators, waterproofing and dampproofing, architectural terra cotta, brass pipe, iron stairs, fire doors, steel sash, tile, marble, metal lath, electric work, modulating heat.

Hotel Landis (alts. and add.), Atlantic City, N. J. Plans in progress. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, J. Yon, Traders' Hotel, Atlantic City, N. J. Brick, steel, 6 stories, 70x60 feet, concrete roof, maple floors, 2 elevators, safety treads, waterproofing and dampproofing, electric light, tile, marble, steel sash.

Hotel, South Carolina avenue, near Beach, Atlantic City, N. J. Plans in progress. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Dr. L. Ludof, Iroquois Hotel, Atlantic City, N. J. Fireproof, steel, brick, 15 stories, 82x140 feet, concrete floors, maple and composition floors, hollow tile, elevators, safety treads, roof ventilators, waterproofing and dampproofing, cast stone, bronze, ornamental iron, iron stairs, fire doors, tile, marble, electric light.

Fetter School (add., Auditorium), Third and Walnut streets, Camden, N. J. Plans about completed. Ready for bids in 10 days. Architect, Thomas Walter Mayo, Camden, N. J. Owners, Board of Education, Albert Austermuhl, Secretary, 121 South Twenty-seventh street, Camden, N. J. Brick, reinforced concrete, 1 story, 60x80 feet.

Catto School, Thirtieth and Morris streets, Camden, N. J. Plans about completed. Ready for bids in about 2 weeks. Architect, Thomas Walter Mayo, Camden, N. J. Owners, Board of Education, A. Austermuhl, Secretary, 121 South Twenty-seventh street, Camden, N. J. Brick, fireproof, 1 story, 60x105 feet.

Terminal, Trenton, N. J. Architect will be ready for bids at end of week. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Trenton & Mercer County Traction Co., care of architect. Brick, 2 stories, 32x80 feet, slag roof, wood and concrete floors, steam heat, electric light, tile, marble, steel sash.

Schools (2), McKee City and Steelmanville, N. J. Owners will be ready for bids this week. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City. Owners, Board of Education, Egg Harbor Township, James B. Brown, District Clerk, McKee City, N. J. Brick, 1 story, 33x64 feet, slag roof, pine floors (heating, plumbing and electric separate).



AN EXAMPLE OF ART CAEN STONE, WINDOW OF M. CAPLAN, 331 SOUTH ST.

ART { ROMAN TRAVERTINE
CAEN STONE, MARBLE
INDIANA LIME STONE
BRIAR HILL STONE
**PLAIN AND ORNAMENTAL PLASTERING
FLOORS AND WALLS
INTERIOR-EXTERIOR**

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ARTPLAST
Products
Modeling Studio
4231 FILBERT STREET
BARIing 2155

Apartment House, Ocean City, N. J. Owner taking sub-bids. Architect, private plans. Owner, R. E. Field, 5310 North Camac street, Philadelphia. Brick and shingle, 3 stories, 21x60 feet, asbestos shingle roof.

Court House (alterations and equipment), Bridgeton, N. J. Owners taking bids due July 8th. Owners, Cumberland County Board of Freeholders, W. C. Phifer, Millville, N. J. Changing interior of Chief Clerk and Surrogate's Office, steel filing cabinets.

Administration Building, State Reformatory for Women, Clinton, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, limestone, cast stone, 2 stories and basement, 99x35 feet, wing 68x35 feet, slate and copper roof, maple, pine and cement floors, metal weather strip, caulking, membrane and integral waterproofing, iron stairs, ornamental iron, cinder concrete block. General, Maurice Pederson, 358 Lawrie street, Perth Amboy, N. J., \$79,978. Plumbing, Burns, Lane & Richardson, New Brunswick, N. J., \$4,913. Heating, Elling Brothers, Somerville, N. J., \$5,255. Electric, Commercial Elec. Co., Newark, N. J., \$6,650.

Plaza Tunnel, \$300,000. Philadelphia side of Camden Bridge. Plans in progress. Owners will be ready for bids in about 3 weeks. Architect, private plans. Owners, Joint Bridge Commission, Joseph K. Costello, President, Widener Building, Philadelphia. Stone, steel, concrete, comfort station.

Highway Bridge, \$400,000. Dorset over Inside Thorofare, Ventnor, N. J. Owners will be ready for bids in August. Engineer, A. H. Nelson, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic County Board of Freeholders, F. F. Doughty, Director, Guarantee Trust Building, Atlantic City, N. J.

Bridges, New Jersey. Owners taking bids due July 15th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route 48, Section 21, over Still Run and Elmer Lake, Malaga-Elmer, Gloucester County. Excavation, concrete, reinforcing steel, structural steel, piles. Certified check, 10 per cent. Deposit, \$10.

Paving, Berlin, N. J. Owners taking bids due July 11th, 8 P. M. (Daylight Saving Time). Owners, Camden County Park Commission, Z. M. Castor, 807 Wilson Building, Camden, N. J. Approximately 750 cubic yards unclassified excavation, 1,000 lineal feet 8-inch curb, 600 lineal feet 8-inch radius curb, 3,000 square yards 8-inch reinforced concrete paving. Bond. Deposit, \$10; refund, \$5.00. Certified check, 10 per cent.

Road Work, Route 10, Sec. A and B, Cont. 24, Charlotte avenue, Jersey City to Fish House road, Town of Kearney, Hudson County, N. J. Owners, State Highway Commission, Trenton, N. J. Low bidder, Strobel Steel Construction Co., 63 West Jackson street, Chicago, Ill., \$1,387,853.25.

New Jersey Contracts Awarded

Building (restoration), Delaware and Cooper street, Camden, N. J. Contract awarded Cope & Co., 600 South Delaware avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Esterbrook Steel Penn Co., on premises. Caulking, waterproofing, general restoration.

Church (alts. and add.), Trenton, N. J. Contract awarded Howard W. Hartman, Mercerville, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, First Presbyterian Church, Hamilton Square, N. J. Concrete block, stucco, 1 story, 37x58 feet, slate roof, oak and teltex floors, hollow tile, heating extension, electric light, metal lath, general interior alterations.

Residence (int. alts. and add.), 643 West State street, Trenton, N. J. Contract awarded Applestein & Kaplan, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, David Holzner, on premises. Brick, 2 stories, 20x20 feet, slate roof, oak floors, new plumbing, oil burner, tile, marble, general alterations.

Residence (alts. and add.), Trenton, N. J. Contract awarded Applestein & Kaplan, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, Dr. Samuel Blaugrund, 190 West State street, Trenton, N. J. Brick, 2 stories, 20x20 feet, tin roof, rubber tire floors, tile, marble, plumbing fixtures.

Pharmacy (alts.), Broad and Market streets, Trenton, N. J. Contract awarded I. Clayton, 282 Bellevue avenue, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, J. D. Margerum, on premises. New store front and interior alterations.

Mausoleum, \$350,000. Cooper River and Crescent Boulevard, Camden, N. J. Contracts awarded. Architects, Lovell & Lovell, Chicago, Ill. Owners, Harleigh Cemetery, care of William Clayton Jones, Camden, N. J. White granite exterior, 2 stories, organ, elevator system, 2 chapels. Foundations laid by Simplex Foundations Company of New York, care of owners. Superstructure awarded to Ardmore Construction Company, care of owners.

Highway Work, New Jersey. Contracts

awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Raritan River Bridge and Route 31, Section 4, Somerville Bypass, Somerset County. Edward H. Ellis, Westville, N. J., \$331,440.36.

Route 1, Sec. 5, South. Cont. 27, West Side, Jersey City, Hudson County. M. Millimet, 988 Bergenline avenue, Union City, N. J., \$99,601.

Route 3, Sec. 3, Randolph avenue, Clifton, to Market street, Paterson, Passaic County. George M. Brewster & Son, Bogota, N. J., \$198,362.67.

Route 21, Sec. 5, from North of Chester avenue, Newark, to Belleville Turnpike, Belleville, Essex County. Titanic Contracting Co., Newark, N. J., \$213,405.80.

Miscellaneous Construction News

Boiler House and Turbine House, Utica, N. Y. Architect taking bids due July 8th. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, S. Kennandoe Rayon Corporation, Utica, N. Y. Brick, reinforced concrete, steel, 1 story, 100x100 feet, gypsum slag roof, concrete floors, caulking, steel partitions, rolled steel sash, bond.

Colonial Residences (12), English Residences (8), Rochester, N. Y. Owners taking bids on 16. Plans in progress on 4. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Kodak Employees' Realty Corporation, care of H. D. Haight, Rochester, N. Y. Brick, stone, frame, 2½ stories, 25,000 cubic feet shingle roof, hot air heat, electric light, tile work, hardwood floors.

Grade School, Minguadale, Del. Owner taking bids due July 15th. Architect, Gilbert & Betelle, Newark, N. J. Owner, School Building Commission, Perry E. Swanson, Wilmington, Del. Brick, concrete, timber roof, one story, 159x33 feet.

TELLING LEADS TO SELLING

By H. A. MORSE

President H. A. Morse Inc. Advertising Counselors

Abner "Grandfather" Brown, able builder, never thought much of the advertising profession. His "craft" (as he fondly termed the construction business) needed no ballyhoo.

Yet Grandfather Brown lived to see the construction industry become the greatest contributor to our national

USE

"MILTON"

Deformed Reinforcement Bars

IN ALL YOUR CONCRETE CONSTRUCTION

They Insure Reliability and Durability

All sizes Rounds and Squares conforming to A. S. T. M. specifications

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MILTON, PENNA.

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PHILADELPHIA, PA.

DAILY BUILDING NEWS

Leads to More Business

You Can Easily See How

By Following Every Morning

Daily Building News

1530 CHESTNUT STREET

PHILADELPHIA

wealth,—largely through advertising. He saw, and grudgingly admitted that he saw, Advertising take the sprawling building business, set it to rights, make it profitable.

Through the manufacturers, dealers and the builders themselves, Advertising took an almost limitless number of methods and materials, some quack, some sound, placed them in the spotlight of public opinion—and, briefly, reached a point of standardized practice and products. It gave the public a measuring stick to use methods and materials of approved value. And it gave those builders a broader field of action. It assured them of quality and the public did the rest.

Secondly, Advertising, traveling over its lightning route, took *new* methods and materials, tested them widely, scrapped many, established others.

Thirdly, Advertising gained recognition for those builders who had the judgment that if they would adhere to first class construction methods, the public would not take a century beating a path to their doors.

Without Advertising, construction would never have assumed such gigantic proportions. Widespread attention focused on the field has created a demand for homes, for industrial and commercial structures, unparalleled in history.

But let us assume for the moment that construction might have reached first position in our national weal without the aid of one line of advertising copy. What would be today's standards of quality? What would be the financial status of reliable contractors?

The owner, the buyer of workmanship and equipment, feels secure within the protection of far-reaching publicity. He buys with more confidence than he would have invested in Grandfather Brown in the latter's best days. Consider that Nine Billion Dollars are spent yearly by building owners, that a considerable portion of this vast sum is paid over before owners see tangible evidence of their investment. Such faith is based on the personal integrity of contractors and on trade marked materials and equipment.

Because the makers of construction tools and materials know that builders will respond to their efforts toward standardization, they have considered it wise to enhance the value of their products by further research.

If we implied that Grandfather Brown's thoughts on the Advertising profession were old-school and obsolete in 1929, that was in error. It is still not an uncommon thing to hear a successful contractor remark that Advertising has no place in the building business. While in another room, the purchasing department pores over the catalogs of national advertisers.

The construction business is entering

upon its second cycle of Advertising education. The next 50 years will find many National Contractors with National—and International—Reputations. The belief has been, and still is, that the contractor's work is local and as such, his reputation is dependant upon word of mouth publicity (and, of course, on physical proof of his ability in buildings round-about). But these barriers of geographical characteristics are being broken down; cities themselves are passing beyond the neighborly stage; it is becoming increasingly more difficult for any one contractor to make and maintain a reputation of mute testimony alone.

Builders who have ventured into self-advertising have found the way well paved. Believers in advertised products themselves on the one hand, and with millions of converts on the other, they have had only to say: "We use these products. Here are proofs of our sincerity." Few industries have had such excellent opportunities to capitalize on the guarantee of value established for them.

Grandfather Brown, back in the '80's, would have had an uphill climb convincing the natives with the printed, the spoken, and the broadcast word, that his methods, his jobs were without rival. He had little to build on; uncertified materials, unbranded equipment. Naturally, his field of activities was limited to a small geographical area where people knew him personally, had faith in him as an individual.

1929 Builders are not so handicapped. The public is product-conscious, construction-minded. Builders have merely to tie-in their abilities with their tools of performance.

Who are responsible for these changed standards? Those who knew that through the power of the printed word, thousands will react to the suggestion that new homes are infinitely superior to old. This influence on the American people, encouraging their efforts to improve present conditions, is reflected boldly in all Advertising. Construction, particularly that phase having to do with the home, has benefitted accordingly.

Manufacturers, directing their publicity through the builder, and in many cases to the home owner, have established standards for the American Home which are unmatched in history. In point of architectural beauty, convenience, time-resisting quality, home construction today far surpasses that of the '80's. Grandfather Brown would say that Advertising has brought this about by making the individual dissatisfied, eager for something better. True in a sense, but that is the spirit that has made this country the most progressive, the most forward-looking in the world.

In commercial work as well, the knowledge that better equipment, more com-

modious and efficient quarters, could be had, as broadcast in advertising messages, has created demands for new buildings: new business for the contractor directly attributable to advertising.

No one knows better than the contractor's own purchasing department how synonymous are trade-marked products with good construction. The new element in the construction business, the sales promotion department, will find an ally here. And on the organization chart here, we have taken the liberty of hooking-up these two functions in the interests of a more profitable construction business.

Acknowledgments are hereby given to Everett Winters Co., aggressive builders, and to Cutler-Hammer, Inc., for their kind, if unsolicited, permission to reprint portions of their material.

—Building Age.

CENTER FIXTURES GIVE BEST RESULTS

Nearly all women indulge in frequent rearrangement of furniture. Lighting in relation to such changes is important. Center fixtures in all rooms of the home quite logically give best results in uniform and even distribution of illumination throughout a room. Certainly the man who wires for a center fixture, even though it may not be installed when the house is built, will not regret it, and he will undoubtedly install it at a later time.

Although most of us live under the light of our portable lamps, it is highly inadvisable to install lighting that depends wholly upon lamps. With fixtures to provide for widespread general illumination and lamps adding the "local" lighting and harmonious note of decoration in the shades they carry, satisfactory results will be had if thought is given their placement.

Convenient outlets placed in the baseboards of the living room, halls and bedroom will hide the attachment cords of the portable lamps for which they are largely used.—East Bay Builder.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public associations tending to overcome the natural habit of procrastination.—Making advertising pay.

"Camouflage" doesn't pay in advertising. Don't call your cannon a bit of landscape. Be honest and gain the confidence of the public.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS

Metalweld, Inc., 26th and Hunting Park Ave., Phila.

AIR COMPRESSORS FOR HIRE

Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.

Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.
Pigeon, Ernest A., 4231 Filbert St., Phila.

ARTESIAN WELLS

Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ASBESTOS SHINGLES

Warren-Ehret Co., Luzerne and "E" Sts., Phila.

ASBESTOS WALL PANELS

Howard Ketcham, 3rd and Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER

Blue Print Shop, 1520 Sansom St., Phila.
Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

BOILER AND PIPE COVERING

Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

BRICK

Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

BRICK (Cement)

Pennsylvania Brick & Tile Co.,
Westmoreland St. Wharves, Phila.

BUILDERS

Anthony Darin & Bros., 5552 Master St., Phila.
Mitchell Bros., 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDING MATERIALS

Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK

Huskey Mfg. Co., Columbia and Howard St., Phila.

CAISSONS

Foundation & Construction Co., 1320 Race St., Phila.

CASEMENTS (Window or Door)

DePett Casements, 900 Chestnut St., Phila.

CAULKING

Malia, Thos. J., 226-32 W. Mentor St., Phila.
Jules H. Rosenberg, 2313 Walnut St., Phila.

CAST STONE

New Jersey Cast Stone Co., Vineland, N. J.

CEMENT BLOCKS

Pennsylvania Brick & Tile Co.,
Westmoreland St. Wharves, Phila.

CEMENT WORK

D'Lauro, John, 7732 Ardleigh St., Phila.
Massiah, Frederick, Juniper and Cypress Sts., Phila.

CONCRETE PRODUCTS

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Westmoreland St. Wharves, Phila.

COLD STORAGE (Insulation and Covering)

Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

COLUMNS (Metal)

Pearce Fireproof Co., 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick, Juniper and Cypress Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.

CURBING

Graham, Frank C., 314 S. Camac St., Phila.

DAILY BUILDING NEWS

Building News Pub. Co., 1530 Chestnut St., Phila.

DAMP-PROOFING

Anti-Hydro Waterproofing Co.,
1518 Walnut St., Phila.

Barnett Bingswanger, Jr., 829 N. 3rd St., Phila.
Hydroseal Waterproofing Co., 829 N. 3rd St., Phila.

DISMANTLING

Industrial Dismantling Co.,
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Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
Weber, F., Co., 125 S. 12th St., Phila.
Weil, J. H., Co., 1315 Cherry St., Phila.

ELECTRICAL REFRIGERATION

Philadelphia Gas Range Co., 1026 Arch St., Phila.

ELECTRIC SAWS

Crowe Safety Saw Sales Corp.,
515 Real Estate Trust Bldg., Phila.

FENCES

Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS

Frank W. Butterworth, 1518 Walnut St., Phila.

FIRE INSURANCE

Insurance Co. of North America, 1600 Arch St., Phila.
Phila. Fire & Marine Insurance Co.,
N. E. Cor. 15th and Locust Sts., Phila.

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FLOOR HARDENER

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Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.
Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.
Selby, Battersby & Co., 810 Noble St., Phila.

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Selby, Battersby & Co., 810 Noble St., Phila.

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Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.
Selby, Battersby & Co., 810 Noble St., Phila.

FLOORING (Steel)

Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.

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Clausen, Wm. H., 27th and Diamond Sts., Phila.
Cox, Janeway & Co., Real Estate Trust Bldg., Phila.

FOUNDATIONS

Foundation & Construction Co., 1320 Race St., Phila.

GAS RANGES

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HOLLOW TILE

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Cox, Janeway & Co., Real Estate Trust Bldg., Phila.
Ketcham, O. W., 121 N. 18th St., Phila.

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E. I. Simpson Co., Widener Bldg., Phila.
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IRON AND STEEL (Structural and Ornamental)

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Gaul and Huntingdon St., Phila.
Lederle, Robt. B., & Co., Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co., 2500 Duncan St., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

KITCHEN CABINETS

Philadelphia Gas Range Co., 1026 Arch St., Phila.

LEVELS

Robbins, Chas. H., Co., Ranstead & Mole Sts., Phila.
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Weil, J. H., Co., 1315 Cherry St., Phila.

LINOLEUM

Livezey Linoleum Floors, Inc., 128 S. 19th St., Phila.

LOCKERS (Steel)

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Belfi Bros. Co., 1923 Market St., Phila.
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Pigeon, Ernest A., 4231 Filbert St., Phila.

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DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.
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Franklin Tile & Mosaic Co., 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co., 433 Spruce St., Phila.
Pennsylvania Tile & Mosaic Co., 1637 Wood St., Phila.
Roman Mosaic & Tile Co., 435 Green St., Phila.

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WALL BOARD

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Entered at the Philadelphia Post Office as Second-Class Matter

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July 10, 1929

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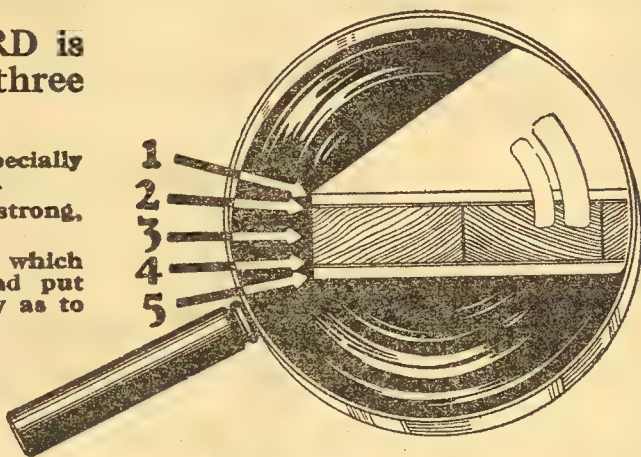
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Loans Upon Collateral	57,786,578.63	Surplus	21,000,000.00
Investment Securities Owned	43,591,813.88	Undivided Profits	5,035,827.56
Real Estate Owned	3,248,018.89	Bills Payable with Federal Reserve Bank..	2,800,000.00
Other Assets	10,053,579.50	Other Liabilities	7,941,160.09
	<u>\$127,738,390.56</u>	DEPOSITS	<u>84,261,402.91</u>
			\$127,738,390.56

Trust Funds, \$755,275,392.93

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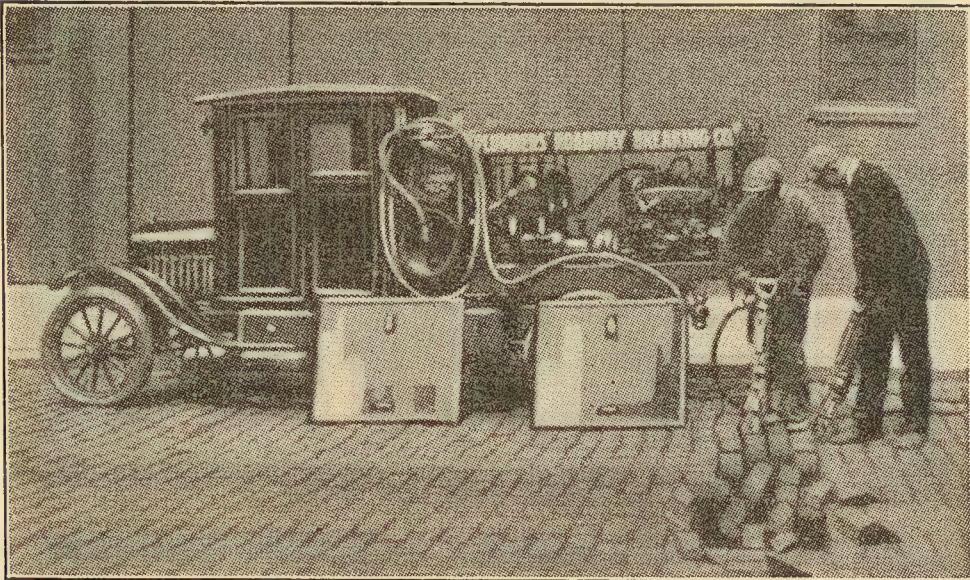
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 28

PHILADELPHIA
July 10, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

Building News Publishing Company, Inc.

1530 CHESTNUT ST., PHILADELPHIA

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Schools (2), (1) replace Fulton School, Germantown; (1) vicinity of Summerdale and Benner streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Work contemplated.

Hospital, \$1,500,000. Forty-first and Parrish streets, Philadelphia. Plans in progress. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Women's Hospital of Philadelphia, Mrs. George H. Earl, Chairman of Building Committee, on premises. Brick, steel, concrete.

Residence, 2951 North Twenty-second street, Philadelphia. Plans completed. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owner, Dennis Santanelli, on premises. Brick, 3 stories, 18x80 feet.

Synagogue, Southwest Corner Fifty-second and Columbia avenue, Philadelphia. Architect taking sub-bids due July 19th. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Shaari Jedek Congregation, care of A. D. Caesar, Esq., 1321 Arch street, Philadelphia. Brick, east stone, 1 story, auditorium, rear, 3 stories, 36x120 feet, asphalt roof, steam heat, electric light, tile work, steel sash, asphalt roof, oak floors, interior wall finish, stained and leaded glass, church seats, mill work.

Residence (alts. to Store), 663 East Westmoreland street, Philadelphia. Owner ready for general bids. Architect, private plans. Owner, John L. Gleason, on premises. Brick, new front, plate glass, electric work.

University School of Medicine, Northwest

Corner Broad and Ontario streets, Philadelphia. Ready for bids July 15th. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Temple University, Dr. O. E. Buery, Broad and Berks streets, Philadelphia. 5 stories, 100x196 feet.

Church (int. alts.), Lehigh and Memphis street, Philadelphia. Architects taking bids due July 11th. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Ann's Roman Catholic Church, Rev. William N. Sullivan, on premises. Concrete work, bond, metal lath, marble work, terrazzo work, Zenithern floors.

Residence and Garage, \$25,000. Wayne and Mt. Airy avenues, Philadelphia. Architect taking bids due July 17th. Architect, Paul Hesser, Jr., 225 South Sixth street, Philadelphia. Owner, Harold M. Rankin, care of architect. Stone, steel, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, plumbing, hot water heat, electric light, metal lath, tile work, rolled steel sash, bond, ornamental iron work.

College and Hospital Building, Abbottsford road and Henry avenue, Philadelphia. Architects taking bids due July 16th. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Women's Homoeopathic Hospital, Twenty-third and College avenue, Philadelphia. Brick, steel, concrete, 4 stories and basement, 340x43 feet, 2 wings, 86x43 feet, composition, tile roof, composition, rubber tile, cement floors, hollow tile, elevators, plumbing, metal window guards, metal weather strip, caulking, waterproofing and dampproofing,

flagstone, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal doors, bond, iron stairs, ornamental iron work, linoleum.

Miscellaneous Work, Philadelphia. Owners taking bids due July 16th, 11 A. M. (Standard Time), 216 City Hall, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 1002 City Hall Annex; inquire 1004 City Hall Annex, Philadelphia. Improving City avenue, Monument road to Bridge over Schuylkill River. Grading and improving Neill Drive, City avenue to 310 feet Southeast of City avenue. Asphalt paving, asphalt repaving, fabricated structural steel. Certified check or certificate of deposit.

Residences (34), \$108,000. Georgian road, North of Seventy-fourth avenue, Philadelphia. Permit issued. Architect, private plans. Owners, James F. Nolen & Son, 64 East Church lane, Philadelphia. Brick, 2 stories, 16x37 feet, 13x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (26), \$105,000. North side Devreux street, East of Loretta street, Philadelphia. Permit issued. Architect, private plans. Owners, Brenner & Hantman, 5934 Ogontz avenue, Philadelphia. Brick, 2 stories, 16x31 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (2), \$7,000. West side Eighty-sixth street, South of Bartram avenue, Philadelphia. Permit issued. Architect, private plans. Owner, John R. Scholtz, 8756 Eastwick avenue, Philadelphia. Brick, 2 stories, 16x18 feet, 24x16 feet, slag roof, pine floors, hot

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Residences (2), \$8,000. North side Hartel street, West of Erdrick street, Philadelphia. Permit issued. Architect, private plans. Owner, Fred J. Blankenhorn, 8049 Rowland avenue, Philadelphia. Brick, 2 stories, 16x24 feet, 18x26 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Gas Stations (2), \$3,200 each. 5535 Haverford avenue and Sixty-ninth and Old York road, Philadelphia. Permit issued. Owners, Standard Oil Company, Public Ledger Building, Philadelphia. Brick and tile, 1 story, 15x18 feet, and tile and stucco.

Heating in Schools (2), Wright and Umbria streets, Forty-fourth and Aspen streets. Low bidder, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia. Wright and Umbria, \$39,900; Forty-fourth and Aspen, \$43,600. Architect, H. T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia.

Miscellaneous Grading Work, Philadelphia. Low bidders. Owners, Bureau of Highways, Department of Public Works, City Hall, Philadelphia. Eastwick, Sixty-third to Sixty-seventh street, Thomas P. Lee, 5629 Cherry street, Philadelphia, \$8,225.20. Eastwick, Fifty-sixth, Lindbergh Boulevard, etc., Thomas P. Lee, 5629 Cherry street, Philadelphia, \$4,346.46. Temple, Vernon and Sedgwick, Joseph Herzog, 4314 York road, \$1,514.62. Boyer street, McPherson to Roumfort, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$3,498.86. Hegerman, Benner to Devoreaux, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$7,149.22. Locust, Sixty-second to Cobb's Creek Parkway, Municipal Paving Co., Second and Wingohocking streets, \$7,489.40. Wanamaker, Lebanon to Malvern, Union Paving, 123 South Twenty-first street, Philadelphia, \$4,498.46. Asphalt resurfacing by heater: Group No. 1, Eastern Asphalt Co., Pennsylvania Building, \$45,482.20; Group No. 2, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$73,896.20; Group No. 3, Barber Asphalt Co., 1600 Arch street, \$48,252.46. Redress granite block, Franklin, Vine to Spring Garden, Mazzola & Marano, 739 South Seventh street, Philadelphia, \$22,503.50. Fourth street, Fairmount to Girard, Elkins Paving Co., 834 North Holly street, Philadelphia, \$37,109. Ninth street, Spruce to Pine, Atlas Paving Co., 317 South Sixth street, \$6,071. Seventeenth street, Susquehanna to Lehigh, Joseph Salvucci, 512 North Sixty-fifth street, \$32,582.36. Repairs to intersections: Germantown and Susquehanna, Seventh and Chestnut, Tenth and Arch, Eleventh and Filbert, Thirteenth and Arch, Sixteenth and Walnut, Eighteenth and

Fairmount, Nineteenth and Chestnut, Twentieth and Wharton, Twentieth and Walnut, Twenty-second and Columbia, Municipal Paving Co., Second and Wingohocking streets, \$31,815.84. Furnish and laying sheet asphalt, Walnut Street Bridge, Union Paving Co., 123 South Twenty-first street, \$3,699. Bureau of Street Cleaning, 919 City Hall Annex, Philadelphia: A—Pre-heaters, Bartram, Inc., Fifty-first and Gray's avenue, Decarie Incinerator Co., Long Island City, N. J., \$2,085; B—Smoke exhaust in Bartram, Inc., George F. Dobbins, Inc., 1020 South Forty-seventh street, Philadelphia, \$890.

Bank, Germantown and Cheltenham avenues, Philadelphia. Architect taking bids due July 26th, 10 A. M. Architect, Arthur H. Brockie, 254 South 15th street, Philadelphia. Owner, Germantown Trust Co., on premises.

Residences (25), \$105,800. Permit issued. (Walker street north of St. Vincent street, Philadelphia.) Architect, private plans. Owner, Max A. Schwartz, 5302 Diamond st., Philadelphia. Brick, 2 stories, 15x46 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (2), \$11,600. 8006-08 Castor avenue, Philadelphia. Permit issued. Architect, private plans. Owner, G. F. Hansen, 8204 Castor avenue, Philadelphia. Brick, 2 stories, 16x33 feet, 13x24 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Manufacturing Building, \$5,000. Southwest corner Thirty-first and Magazine lane, Philadelphia. Permit issued. Owners, Benjamin Foster Co., Twentieth and Venango streets, Philadelphia. Iron, 63 feet 10 inches by 170 feet.

Apartment House, 43 East Penn street, Philadelphia. Owner taking sub-bids. Architect, Alvin C. Bieber, 1520 Locust street, Philadelphia. Owner, Kaplan Miller, Inc., Real Estate Trust Building, Philadelphia. Brick, steel, lime stone, 4 stories, 90x300 feet, slag roof, wood deck, asbestos, slate roof, hardwood and linoleum floors, elevators, electric light, tile work, special wall finish, incinerators, kitchen equipment, refrigeration.

Store and Apartment, 2957 North 22nd st., Philadelphia. Owner taking bids due as soon as possible. Architect, Stackhouse & Donohoe, 266 South 15th street, Philadelphia. Owner, Donato Santancillo, on premises. Brick, 3 stories and basement, 18x80 feet, slag roof, composition floors, hot water heat, electric light, plate glass, metal bulks.

Escalator Well, Contract No. 179. City Hall Station, Broad Street Subway, Philadelphia. Owner taking bids due July 12th, 11 A. M., Standard Time. Architect, private plans. Owner, Department of City Transit, City of Philadelphia, City Hall Annex.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Manufacturing Building, \$100,000. Alterations to storage and service building, Front and Erie avenue, Philadelphia. Contract awarded F. V. Warren Co., 1913 Arch street, Philadelphia. Architect, private plans. Owners, Hess Bright Co., care of E. Hottinger, on premises. Brick, steel, concrete, 1 story, 60x140 feet, 122x60 feet, slag roof, 2 stories and basement, concrete and wood deck roof, cement and maple floors, sprinkler, plumbing, roof ventilators, electric light, metal lath, rolled steel sash, fire doors, hollow metal skylights, ornamental iron work, linoleum, steel partitions.

Store Building, 2256 North Broad street, Philadelphia. Contract awarded A. Kirpich, 3211 West Oxford street, Philadelphia. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Joseph J. Flyer, care of architect. Brick, 2 stories and basement, 28x88 feet, slag roof, hardwood floors, concrete and cement work, excavation, demolition, metal ceilings, caulking, painting, glazing, cast stone, stone foundations, vapor heat, electric light, tile and marble work, rolled steel sash, sheet metal work, stair work, iron work.

Church Building, Southwest Corner Tenth and Wallace streets, Philadelphia. Contract awarded Edgar M. Wambold, 822 Perry Building, Philadelphia. Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, St. Paul's Baptist Church, Rev. E. V. Johnson, on premises. Demolition, excavation, brick work, cast stone, iron, steel, metal door, frames, kalamein doors, cement work, metal lath, plastering, hot water heat, electric light, hardwood, asphalt built-up roof, hollow metal windows.

Sales and Service Building, 4846-48 Chestnut street, Philadelphia. Contract awarded H. G. Walters, 412 North Fortieth street, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Block Weiss Co., care of architect. Lessees, West Philadelphia Sales Company, on premises. Brick, steel, 2 stories add., 50x200 feet.

Factory (add.), Orianna and Willows avenue, Philadelphia. Contract awarded Monaghan & Losse, 3016 Chestnut street, Philadelphia. Sprinklers to Central Automatic Sprinkler Co., 243 East Ashmead street, Philadel-

phia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, E. Hubschman & Son, Inc., on premises. Brick, reinforced concrete, steel, third and fourth floor add., 110x40 feet, iron work, slag roof, concrete floors, rolled steel sash, bond.

Tunnel, Corinthian avenue and Girard avenue, Philadelphia. Contract awarded Tallman-Anderson Co., 1713 Sansom street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Engineers, Day & Zimmerman, 112 North Broad street, Philadelphia. Owners, Girard College, on premises. Reinforced concrete, 750 feet long.

Boiler House (alts. and add.), 346 East Walnut lane, Philadelphia. Contract awarded J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, E. F. Griffiths Co., on premises. Brick, steel, ornamental iron work, retaining walls, 2 stories, 16x42 feet, slag roof, cement floors, rolling steel sash.

Fire House (alts.), Tenth and Commerce streets, Philadelphia. Contract awarded E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Works, Bureau of City Property, Philadelphia. Bond, demolition, brick work, iron work, carpentry and mill work.

Bowling Alley, \$10,000. 2219-21 Hunting Park avenue, Philadelphia. Contract awarded Philip Savar, 718 Snyder avenue, Philadelphia. Architect, private plans. Owner, Tillie Cohen, 617 Snyder avenue, Philadelphia. Brick, 1 story, 50x125 feet.

Church (alts.), \$4,600. 1730 Mt. Vernon street, Philadelphia. Contract awarded Carl E. Widell, Woodlynne, N. J. Owners, Swedish Zion Church, on premises. General alterations.

Residences (2), North side Avenue E, West of Seventy-sixth street, Philadelphia. Contract awarded J. Hemok, 2602 South Seventy-seventh street, Philadelphia. Architect, private plans. Owner, James E. Schumar, 2602 South Seventy-seventh street, Philadelphia. Brick, 2 stories, 14x34 feet, slag roof, pine floors, electric light. \$6,000 total.

Residence, \$5,000. 701 Chandler street, Philadelphia. Contract awarded E. Vance, Glenside, Pa. Architect, private plans. Owner,

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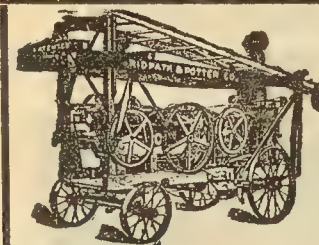
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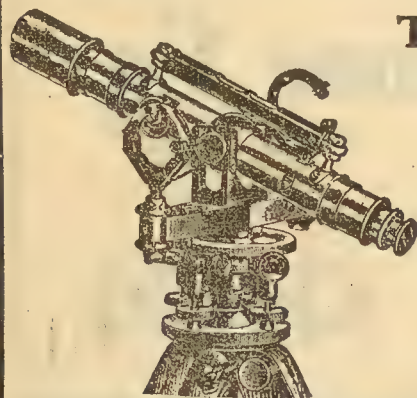
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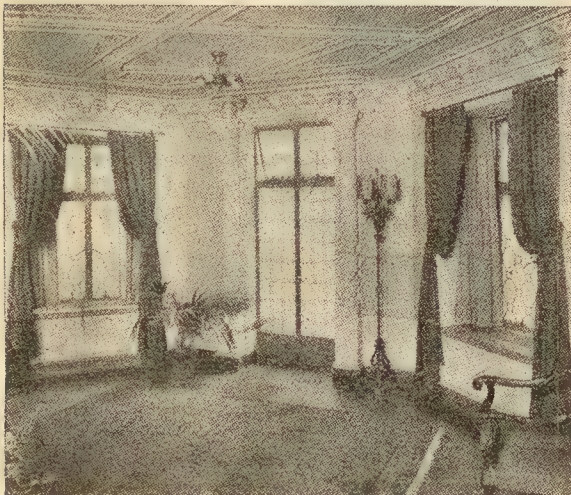
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Charles H. Croker, 3736 North Tenth street, Philadelphia. Frame, 1 story, 25x52 feet.

Mill (alts.), \$2,000. Southeast Corner Second and Westmoreland streets, Philadelphia. Contract awarded William Steele & Sons Co., 124 North Fifteenth street, Philadelphia. General alterations. Architect, private plans. Owners, Windsor Mills Company, on premises.

Gas Station, Northwest Corner Thirty-fourth and Hamilton streets, Philadelphia. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia. Architect, private plans. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Hollow tile and stucco, 1 story, 15x18 feet.

Gasoline Station, Paul and Kinsey streets, Philadelphia. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia. Architect, private plans. Owners, Standard Oil Company, Public Ledger Building, Philadelphia. Hollow tile, stucco, 15x18 feet, tile roof, cement floors.

Moving Picture Theatre (alts.), \$9,000. Northwest Corner Frankford avenue and Brch street, Philadelphia. Contract awarded G. Thomas Holloway, 523 Ludlow street, Philadelphia. Architect, D. Supowitz, 260 South Fifteenth street, Philadelphia. Owner, Samuel Hyman, 1339 Vine street, Philadelphia. General alterations.

Factory (add.), \$9,000. West side Mascher street, North of Allegheny avenue, Philadelphia. Contract awarded Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia. Owners, Shackamaxon Realty Co., on premises. Brick, 1 story add., 48x72 feet.

Residence and Store (alts.), \$3,500. 4627 Frankford avenue, Philadelphia. Contract awarded Anthony Olivieri, 5188 Castor avenue, Philadelphia. Owner, Felix La Corto, 1632 Fillmore street, Philadelphia. General alterations.

Manufacturing Building, \$7,500. East side Stenton avenue, South of Loudon street, Philadelphia. Contract awarded Hesswin Co., 6701 North Broad street, Philadelphia. Architect, private plans. Owner, Louis J. Kolb, Stenton avenue and Loudon street, Philadelphia. General alterations.

Lavatory, \$2,500. South side Tasker street, West of Twenty-sixth street, Philadelphia. Contract awarded Thomas B. Monaghan, 2009 Sansom street, Philadelphia. Architect, C. F. Schaef, 11 South Sixteenth street, Philadelphia. Owners, care of D. Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Brick, 1 story, 14x30 feet.

Store (alts.), \$2,360. Northwest Corner Fifty-second and Westminster avenue, Philadelphia. Contract awarded Charles W. Clements, Inc., 1119 North Sixty-fifth street, Philadelphia. Architect, private plans. Owner, Mary Hartnett, 402 North Fifty-second street, Philadelphia. General alterations.

Asphalt Paving, Philadelphia. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Gerhard street, Ridge to Jannette street, Municipal Construction Co., Second and Wingohocking streets, \$8,189.25. Seventeenth street, Norris to Susquehanna, Eastern Asphalt Paving Co., Pennsylvania Building, Philadelphia, \$19,493.12.

Dairy Building (add.), Seventh and Indiana avenue, Philadelphia. Contract awarded Wm. F. Koelle & Co., 1633 Race street, Philadelphia, who is taking sub-bids. Architect, private plans. Owner, Breuninger Dairies, on premises. Brick, steel, 2 stories and basement, 32x60 feet, slag roof, cement floors, excavation, stone work, concrete work, sheet metal work, waterproofing, ornamental iron work.

Hump Building, Terminal Yard South, Philadelphia, Pa. Contract awarded Sinclair & Grigg, 1518 Walnut street, Philadelphia. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad, Broad Street Station, Philadelphia. Brick, steel, 1 story, 83x18 feet, slag roof, cement floors, steam heat, electric light, plumbing, bond, ornamental iron work.

Pennsylvania Construction News

Residence, Militia Hill Development, White-marsh Valley, Pa. Work contemplated. Architect and owner, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Size of lot over 3 acres.

Residences (30), \$3,000,000. Radnor Hunt Section, opposite Aronimink Golf Club, ranging from \$75,000 to \$150,000. Work contemplated. Owner, Frank H. Mahan, Ardmore, Pa.

Fish Hatchery, Union City, Pa. Preliminary plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, State Fish Hatchery Commission, Harrisburg, Pa.

Apartment House, Sixty-ninth near Walnut street, Upper Darby, Pa. Tentative plans drawn. Work contemplated. Architect, LeRoy

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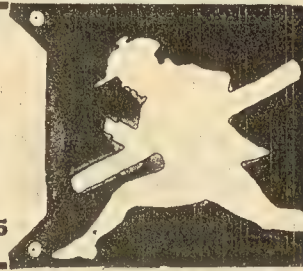
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B. Rothschild, 215 South Broad street, Philadelphia. Owner, name withheld. Brick, steel, concrete, stone, 10 stories.

Hotel Strand (add. and alts.), Market street, Harrisburg, Pa. Plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, Max Cohen, on premises. Brick, general interior alterations, new front, pine floors, tile work, plumbing.

Gymnasium and Swimming Pool, Academy Manor, Harrisburg, Pa. Plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Harrisburg Academy, Dr. Brown, 2900 North Second street, Harrisburg, Pa. Brick, steel, 2 stories, 135x64 feet, slate roof, maple floors, roof ventilators, vapor heat, electric light, tile, marble, iron stairs, brass pipe.

Cape Cod Style Residence, Front street, Harrisburg, Pa. Plans in progress. Architects, Minich & Jamison, 23 North Third street, Harrisburg, Pa. Owner, name withheld. Frame, 2½ stories, shingle roof, hardwood floors, Warren Webster heat, electric light, tile work.

Country Club, Reading, Pa. Architect will be ready for bids in about five weeks. Plans in progress. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading Country Club, S. Giles, Chairman Building Committee, Reading, Pa. Stone, 2½ stories, 160x80 feet, slate roof, tile and maple floors, steam heat, electric light, tile, marble, steel sash, sprinkler system, kitchen equipment, septic tank, ornamental iron, brass pipe, incinerators.

Y. M. C. A. Building (add.), 633 Washington street, Reading, Pa. Architect will be ready for bids in about ten days. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Y. W. C. A., F. S. Livingston, 633 Washington street, Reading, Pa. Brick, steel, 8 stories, 131x96 feet.

Residence, Belvidere Park, Harrisburg, Pa. Plans in progress. Will be ready for bids at end of week. Architect, W. W. Witman, Keystone Building, Harrisburg, Pa. Owner, R. Gross, care of architect. Brick, 2½ stories, 30x50 feet, slate roof, hardwood and pine floors, electric light, tile work.

Farm Show Building and Coliseum, Eleventh and Maclay streets, Harrisburg, Pa. Owners will be ready for bids July 15th. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, State of Pennsylvania, care of Secretary of Architecture, Harrisburg, Pa.

Stores (3), Coatesville, Pa. Architect will be ready for bids first of next week. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owners, Cohen Brothers, Main street, Coatesville, Pa. Steel, brick, 2 stories, 60x125 feet, composition roof, maple floors, tile work, electric light, metal lath, steel sash.

Swimming Pool, Philadelphia pike, Lancaster, Pa. Owner will build. Architect, Frank Everett, 122 East King street, Lancaster, Pa. Owner, A. B. Rote, 414 East King street, Lancaster, Pa. Concrete, reinforced, steel, 20x60 feet.

High School, \$100,000. Ringtown, Schuylkill County, Pa. Owners will be ready for bids in ten days. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owners, Ringtown School Board, Ringtown, Schuylkill County, Pa. Fireproof, 2 stories and basement, 135x76 feet, 110x33 feet, slate roof, maple floors, hollow tile, safety treads, roof ventilators, tile work, metal lath (heating, plumbing and electric separate).

School, Mastersonville, Lancaster County, Pa. Owners will be ready for bids July 15th. Architect, H. Raymond Heckman, 702 Baer Building, Reading, Pa. Owners, Ralph Township School District, J. W. Moyer, Secretary, R. D. 4, Manheim, Pa. Brick, 1 story and basement, 30x83 feet, slag roof, wood (pine) floor, roof ventilators (heating, plumbing and electric separate).

Bungalow, Nutts avenue, Phoenixville, Pa. Plans in progress. Owner will take bids. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Vernon Mourar, 156 West Nutts avenue, Phoenixville, Pa. Stone, 1½ stories, 30x36 feet, asphalt shingle roof, yellow pine and oak floors, hot water heat, electric light, metal lath, electric light, celotex, tile work, wood sash, Morgan doors.

Service Station and Lunch Rooms, New street, Spring City, Pa. Owner ready for bids. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, William Harris, New street, Spring City, Pa. Frame, 1 story, 20x44 feet, asphalt shingle roof, yellow pine floors (heating, plumbing and lighting reserved), Morgan doors, wood sash.

Post Office and Apartments. Owner will build. Alfred Hopson, Llanerch Estates, will supervise construction. Architect, private plans. Owner, Antonio Colandonato, Ardmore Park, Pa. Brick, cast stone, steel, 2 stories and basement, 40x70 feet, slag roof, pine, cement floors.

Office Building (add.), Bethlehem, Pa. Architects taking sub-bids due July 15th. Architects, Graham, Anderson, Probst & White, Railway Exchange Building, Chicago, Ill.; Paul Wicklund, Representative, Benjamin Franklin Hotel, Philadelphia. Owners, Bethlehem Steel Co., H. R. Walters, Bethlehem, Pa. Brick, steel, 6 stories add., 150x155 feet, composition roof, concrete floors, elevators, architectural terra cotta, hollow metal doors, tile, marble, electric light, steam heat.

Children's Pavilion, Eaglesville, Pa. Architects taking new bids due July 11th. Architects, Simon & Simon, Fidelity-Philadelphia Building, Philadelphia. Owners, Eaglesville Sanatorium, Eaglesville, Pa. Brick, concrete,

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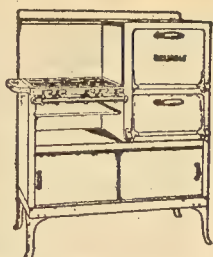
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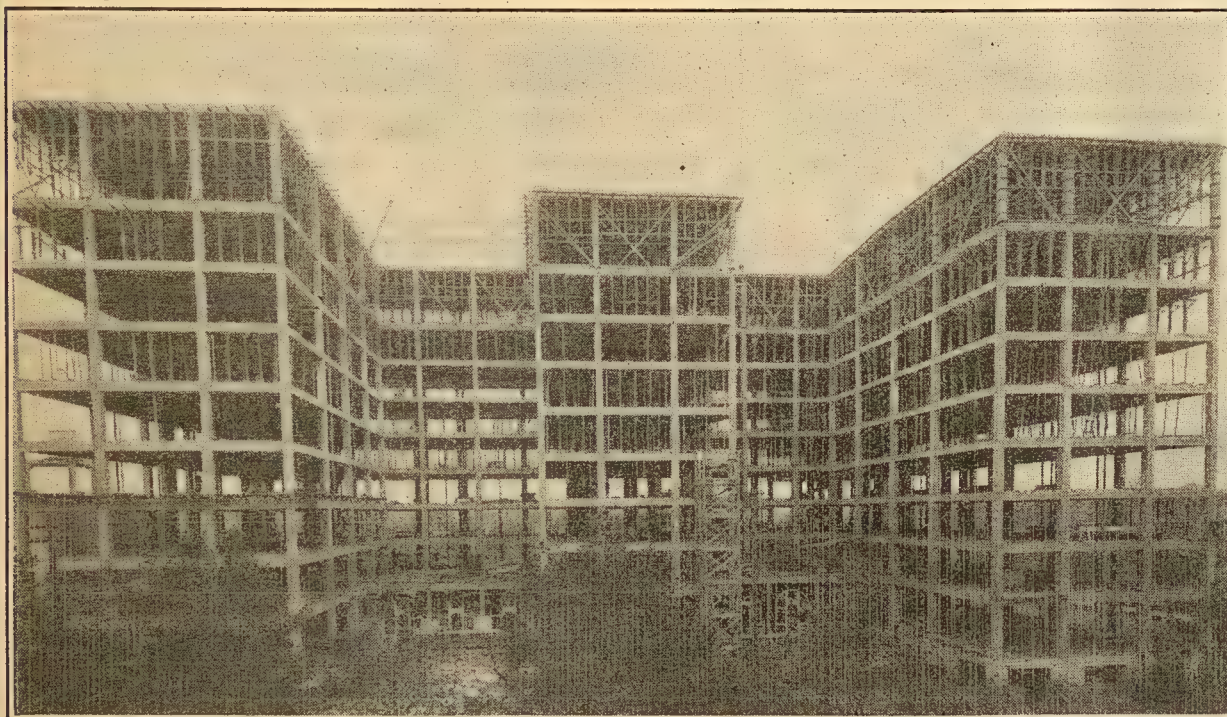
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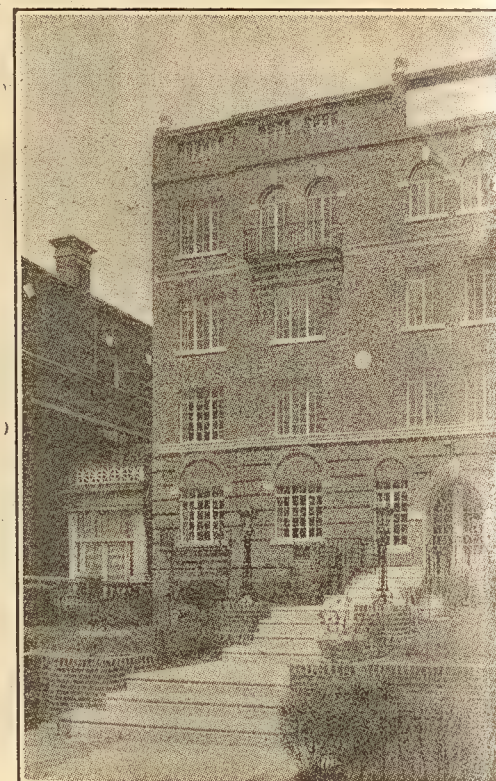
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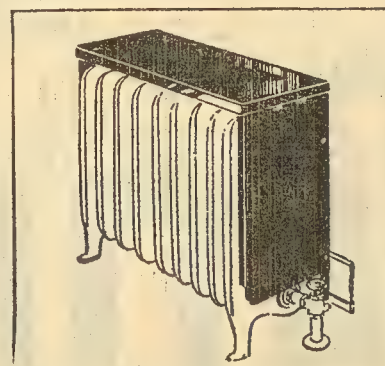
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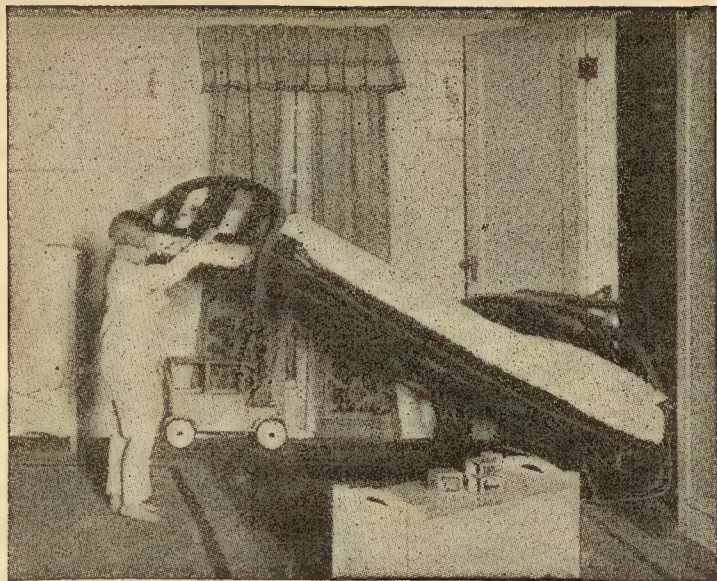
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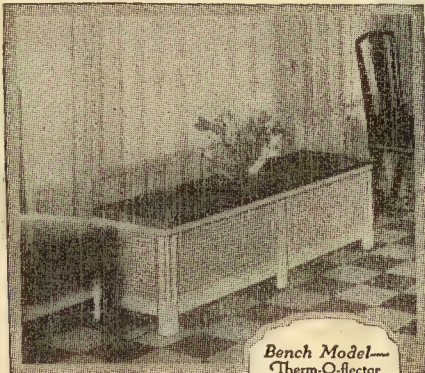
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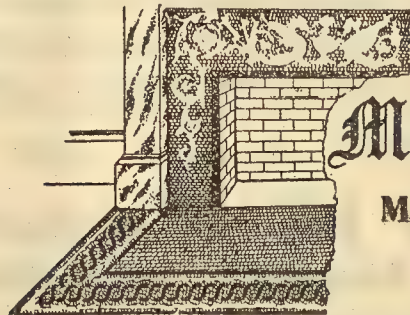
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limestone, stucco, 2 stories and basement, 145x45 feet, slag roof, cement floors, steam heat, electric light, tile work, bond, ornamental iron work.

Residence, Gilbert Property, Rydal, Pa. Architect taking bids due July 16th. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, Wayne Herkness, Packard Building, Philadelphia. Stone, steel, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work.

Church (superstructure), Twenty-second and Edgemont street, Chester, Pa. Architect taking bids due July 15th. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Nativity Lutheran Church, A. R. Cochran, 173 East Mowry street, Chester, Pa. Brick, cast stone, steel, 1 story, 50x60 feet, slate roof, maple floors, steam heat, electric light, plumbing.

School Repairs, Chester, Pa. Owners taking bids due July 22nd, 7 P. M. (Standard Time). Owners, Chester School District, C. E. Sanders, Larkins School, Chester, Pa. General roof repairs, various schools, iron picket and chain link fence, Smedley and Clayton Schools, grading for same; painting interior of school building, school furnishings, Oilmatic coal stoker for Franklin; Horavemann and Larkin Schools, refurbishing blackboards, various schools, installation of new floor in shop Patterson School, athletic supplies. Certified check, 5 per cent, or bond.

Hospital, Reading, Pa. Architect taking bids due July 12th. Architect, M. B. Dechant, 632 Washington street, Reading, Pa. Owners, Homeopathic Hospital, T. S. Sertz, 135 North Sixth street, Reading, Pa. Fireproof, 2 stories and basement, 35x90 feet, built-up roof, concrete floors, dumb waiters, safety treads, roof ventilators, dampproofing, architectural terra cotta, fire doors, steel sash, tile and marble, electric light, steam heat.

Residence (alts. and add.), Merion, Pa. Architect taking bids due July 11th. Architect, Joseph F. Lowery, Land Title Building, Philadelphia. Owner, Dr. John E. Loftus, Medical Arts Building, Philadelphia, and Merion, Pa. Plumbing, painting, glazing, stone, cement work, hot water heat, electric light, metal lath, tile work.

Miners' Building, State College, Pa. Architect taking bids due July 13th. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, State College, R. B. Hetzel, on premises. Brick, limestone, granite, steel,

3 stories and basement, built-up roof, wood deck roof, linoleum and cement floors, metal lath, tile and marble and terrazzo work, rolled steel sash and skylight, roof ventilators, waterproofing, bond, casement windows, ornamental iron work.

School Building, Yeadon, Pa. Owners taking bids due July 17th, 6 P. M. Owners, School District, George R. Anderson, Yeadon, Pa. Supply all materials and erection on concrete block foundations one or more sections school building, containing 2 class rooms, 2 toilet rooms, 2 cloak rooms and vestibule. Separate bids, general, heating, plumbing and electric work. Builder to submit own specifications, 7 plans, must be approved by Bureau of School Building, Art Commission and Department of Labor and Industries of Pennsylvania as a permanent school.

Court House (add.), Media, Pa. Low bidders. Architect, C. W. Brazier, Chester, Pa. Owners, Delaware County Commissioner, G. T. Wades, Media, Pa. Reinforced concrete, marble, granite, steel, third floors, 364x144 feet, 2 wings, 158x144 feet, 2 stories and basement. Nelson Pedley Construction Co., 1510 Chestnut street, Philadelphia, \$1,299,000; Arey Hauser, Elverson Building, Philadelphia, \$1,340,000; Ketcham & McQuade, 1029 Brown street, Philadelphia, \$1,399,000. Plumbing, N. Connolly, 1404 North Eighteenth street, Philadelphia, \$64,337. Elevators, Otis Elevator Co., 502 North Nineteenth street, Philadelphia, \$10,690. Electric, H. W. Hart, 7010 Ditman street, Philadelphia, \$42,750; Walter L. Lyle, Brookline, Pa., \$43,870; Mitchell & Co., 1337 McFerran street, Philadelphia, \$49,700. Heating, Hughes Brothers, Upper Darby, Pa., \$112,490; S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, \$119,859; A. McClintock & Co., 1937 Ridge avenue, Philadelphia, \$122,465.

Repairs to Bridge No. 122, Wiskeyrun Bridge, Springfield Township, Pa. Owners taking bids due July 23rd, 10 A. M. Engineer, G. F. Wright, Media, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Removal and replacing of present brick roadway, curbs, gutters and sidewalks. Certified check, \$500.

Grading, Widening and Rebuilding, Cheltenham road, Cresheim to Willow Grove avenue, Springfield Township. Owners taking bids due July 26th, 8 P. M. (Daylight Saving Time). Engineer, Charles F. Puff, Jr., 410 Old York road, Jenkintown, Pa. Owners, Board of Commissioners, Springfield Township, F. L. Harner, Secretary, Erdenheim, Pa.

Certified check for amount named in specifications.

Grading, Paving, Media, Pa. Owners taking bids due July 25th, 8 P. M. Owners, Borough of Media, Edward Minton, Secretary, Media, Pa. Grading, macadamizing and resurfacing Fifth street, Monroe to Edgemont street, Media, Pa.

Road Work, Pennsylvania. Owners taking bids due July 18th at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Capitol Building, Harrisburg, Pa.

Allegheny County, R-70, Sec. 4B1, A-4358, 3758A, Harmar Township, 804 feet. One course reinforced concrete. 1,059 feet one course reinforced concrete and vitrified brick pavement. Certified check, \$1,000.

Allegheny County, R-257-2, Robinson and North Fayette Townships, 16,081 feet. One course reinforced concrete. Certified check, \$3,500.

Clearfield County, R-234, Sec. 6, Bigler and Beccaria Townships, Glen Hope Borough, 18,245 feet. One course reinforced concrete. Certified check, \$3,000.

Fayette County, R-50, Sec. 1, North and South Union Townships, 14,580 feet. One course reinforced concrete. Certified check, \$2,500.

Lawrence County, R-315, Shenango Township, 568 feet. One course reinforced concrete. Certified check, \$500.

Somerset County, R-119, Sec. R-1, Jenner Township, 4,950 feet. One course reinforced concrete, 871 feet grading and drainage. Certified check, \$1,500.

Tioga County, R-478, Sec. 1, Clymer-Westfield Townships, 13,528 feet. One course reinforced concrete. Certified check, \$2,500.

Washington County, R-118, Sec. 5, Charleroi and Speers Boroughs, 4,009 feet. One course reinforced concrete, 2,040 feet one course reinforced concrete and vitrified brick pavement. Certified check, \$2,000.

Washington County, R-247, Sec. 13, New Eagle Borough, 2,744 feet. One course reinforced concrete. Certified check, \$1,000.

Road Work, Pennsylvania. Owners taking bids due July 19th at 10 A. M. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Allegheny County, R-108, Sec. 4, R-545, Scott, Collier and South Fayette Townships, 11,958 feet. One course reinforced concrete. Certified check, \$3,000.

Center County, R-107, Sec. 4, Spring and Boggs Townships, Milesburg Borough, 8,908 feet. One course reinforced concrete. Certified check, \$2,000.

Delaware County, R-599, Bethel and Upper Chichester Townships, 13,311 feet. One course reinforced concrete. Certified check, \$2,000.

Elk County, R-99 Spur, Sec. 1, Fox and Jay Townships, 18,200 feet. One course reinforced concrete. Certified check, \$3,000.

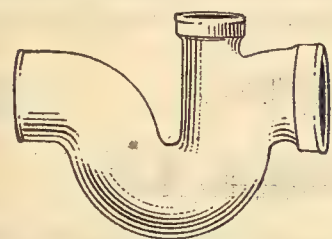
Fayette County, R-50, Sec. 1A, North and South Union Townships, 9,309 feet. Grading and drainage. Certified check, \$2,500.

Jefferson and Clarion Counties, R-237, Sec. 1, Clover Township, Summerville Borough, Redbank Township, 21,282 feet. One course reinforced concrete, 250 feet grading and drainage. Certified check, \$4,000.

Lackawanna County, A-5702, Blakely Borough, 1,973 feet. One course reinforced concrete. Certified check, \$500.

Schuylkill County, R-718, R-161 Spur, Butler Township, Ashland Borough, 4,916 feet. One course reinforced concrete. 168 feet grading and drainage. Certified check, \$1,500.

Somerset County, R-52, Spur R-2, A-6423, 5147, Benson Borough, Paint Township, 9,397 feet. One course reinforced concrete, 600 feet grading and drainage. Certified check, \$2,000.



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Washington County, R-545, Sec. 5, Cecil Township, 5,774 feet. One course reinforced concrete. Certified check, \$1,500.

Road Work, Pennsylvania. Low bidders. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Capitol Building, Harrisburg, Pa.

Bradford County, A-5800, Sayre Borough. One course reinforced concrete. R. O. Richardson Construction Co., Scranton, Pa., \$19,900.75.

Bucks County, R-386, Springfield and Durham Townships. Grading and drainage. H. S. Shafer, Nazareth, Pa., \$35,746.46.

Cambria County, A-5801, A-5535, Lorain Borough, Stonycreek Township. One course reinforced concrete. Dwight R. Davis, Johnstown, Pa., \$60,486.42.

Clarion-Forest Counties, R-380, Farmington and Jenks Townships. Grading and drainage. H. S. Hull, Smethport, Pa., \$42,927.25.

Clearfield County, R-234-7, Decatur Township. One course reinforced concrete. David Bailey, Morrisdale, Pa., \$42,431.

Clinton County, A-5551, Chapman Township, 3,368 feet. Bituminous surface treated macadam surface course, 359 feet grading and drainage. Charles B. Elder, Renova, Pa., \$34,257.06.

Indiana County, R-319, Sec. 2, R-67, Sec. R-1, Armstrong Township, Shelocta Borough. One course reinforced concrete. Farris Engineering Co., Pittsburgh, Pa., \$49,283.45.

Lehigh County, A-6262, Lower Macungie Township, Alburtis Borough. One course reinforced concrete. Enterprise Construction Co., Bankers' Trust Building, Philadelphia, \$93,463.85.

Allegheny County, R-72, R-389, Sec. 5, Shaler Township. One course reinforced concrete. Frank S. Tillman & Company, Tarentum, Pa., \$101,935.73.

Erie County, R-351, Sec. 1, Waterford Township, Summit Township. One course reinforced concrete, grading and drainage. Lewis-Copeland Construction Co., Lima, Ohio, \$137,659.18.

Lancaster - Chester Counties, R-215-142, R-142, West Sadsbury and Sadsbury Townships. One course reinforced concrete (dual type), one course reinforced concrete. W. Grant Raub Co., Red Lion, Pa., \$328,820.14.

Lancaster-Berks Counties, R-518, A-5581, Brecknock Township. Bituminous surface treated macadam surface course. York Engineering & Construction Co., York, Pa., \$212,351.24.

Lawrence County, R-693, Sec. 1, Wilmington and Pulaski Townships. One course reinforced concrete. J. C. Devine Co., Meadville, Pa., \$169,920.55.

Lehigh County, R-443, Sec. 3, Weisenberg Township. One course reinforced concrete. Continental Contracting Co., Knickerbocker Building, Baltimore, Md., \$178,084.

Monroe County, A-5767, Jackson Township, 8,167 feet. Bituminous surface treated macadam surface course. Fulton Construction Co., Lancaster, Pa., \$63,825.40.

Snyder County, R-28, Beavertown Borough. One course reinforced concrete. J. M. Hutchinson & Narehood Brothers, Altoona, Pa., \$53,194.52.

Susquehanna County, R-316, A-5797, A-6210, Chocanut Township. One course reinforced concrete. R. D. Richardson Construction Company, Scranton, Pa., \$76,862.80.

Luzerne County, R-5, Sec. 2, Bridge, Dupont and Avoca Boroughs, over tracks of Delaware & Hudson and Lehigh Valley Railroads. Reinforced cement concrete wearing surface, structural steel, reinforced concrete. Also one course reinforced concrete. Anthracite Bridge Co., Scranton, Pa., \$173,884.03.

Road Work, Cheltenham road, dividing townships of Springfield and Cheltenham, between Cresheim and Willow Grove avenues, Springfield Township, Pa. Owners taking bids due July 26th at 8 P. M. (D. S. T.) Owners, Board of Commissioners of Springfield Township, F. L. Harner, secretary, Township Building, Erdenheim, Pa. Widening, grading and rebuilding of Cheltenham road. Certified check.

Church School Building, Walnut street, Royersford, Pa. Preliminary plans and sketches being prepared. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Evangelical Congregational Church, Geo. S. Peterman, chairman, Building Committee, 314 Main street, Royersford, Pa. Brick, 2 stories, with balcony, 42x50 feet, slate roof, yellow pine floors, steam heat, electric light, wood sash, Sunday School furniture, chairs, canvas curtains, accordion doors, metal ceilings, leaded glass windows, frescoing, interior walls, brass railing.

Residence and Garage, Cynwyd, Pa. Preliminary plans in progress. Architect, Alvin C. Bieber, 1520 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x50 feet, hardwood floors, hot water heat, electric light.

Consolidated School, near Swedeland, Montgomery County, Pa. Owner taking bids due July 23, 6.30 P. M. (revised). Architects, Ritter & Shay, Packard Building, Philadelphia. Owner, School District of Upper Merion Township, Montgomery County, Chas. M. Mackey, president, Swedeland, Pa. Brick, steel, 216x107 feet (plumbing, heating, electric separate), slag roof, maple cement floors, metal lath, bond, ornamental iron work. Certified check \$5,000; deposit \$15, refunded.

Chapel, Allentown, Pa. Architect taking bids due July 15th. Architects, Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Ruhe & Lange, 12 North 6th street, Allentown, Pa. (associates). Owner, Muhlenberg College, Allentown, Pa. Reinforced concrete, lime stone, stone, steel, 1 story and basement, 194x53 feet (plumbing, heating, electric, separate bids), wood roof deck, slate, pine and cement floors, excavation, damp-proofing, cast stone, rolled steel sash, bond, ornamental iron work, acoustic celotex.

Lodge Building, Bridgeport, Pa. Geo. M. Thomas, Norristown, will build if project matures. Architect, E. Lane Crawford, Norristown, Pa. Owner, Society Dimutiu Soccasce Madonna Grundee, care D. Tulpillano, 200 Dekalb street, Bridgeport, Pa. Concrete block, stone, 1 story, 35x50 feet, slag roof,

cement and maple floors.

Rooming and Apartment House, 2 Stores and Dwellings, Second and Carey streets, Esington, Pa. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, I. Miller, on premises. Brick, 2 stories, 38x80 feet. Residences 16x36 feet each. Slag roof, maple floors, hot water heat, electric light, plate glass, wood bulks.

Pennsylvania

Contracts Awarded

Hosiery Mill, \$30,000. Cheltenham, Pa. Contract awarded Charles D. Conklin, Jr., Cheltenham, Pa. Architect, private plans. Owner, Woodland Hosiery Mill, R. Pike, 801 Levick street, Lawndale, Pa. Brick, 1 story, 60x108 feet, slag roof, cement floors, heating not decided, electric light.

Parsonage, Highland and Church roads, Wayne, Pa. Contract awarded H. P. Schneider, 3713 Old York road, Philadelphia. Architect, E. A. Wightman, Bankers Trust Building, Philadelphia. Owner, Second Baptist Church, care Rev. B. Moore, Wayne, Pa. Stone, 2½ stories and basement, 28x32 feet, slate roof, oak and pine floors.

Catholic High School, Twenty-first and Market streets, Harrisburg, Pa. Contract awarded J. H. Greiner, 828 Walnut street, Lebanon, Pa. Heating, R. D. Weitzel, Harrisburg, Pa. Plumbing, Herre Brothers, Seventh and Emerald streets, Harrisburg, Pa. Electric, Dauphin Electric Company, 9 North 2nd street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, care Rt. Rev. P. R. McDevitt, 111 State street, Harrisburg, Pa. Brick, reinforced concrete, 2 stories and basement, 240x50 feet, slag and concrete roof, concrete and maple floors, metal weatherstrip, water and damp-proofing, metal lath, tile, marble, terrazzo, steel sash, fire and kalamein doors, ornamental iron, iron stairs.

Hospital, Coatesville, Pa. Contract awarded. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, Bureau of Hospitals, United States Government, Washington, D. C. Group of buildings. General, A. C. Sanford, Montgomery, Ala., \$786,100. Electric, Keystone Engineering Co., 335 Walnut street, Reading, \$63,000. Refrigeration, York Ice Machinery Co., Belmont and Thompson streets, Philadelphia, \$20,384. Steel tank and tower, Pittsburgh DeMoines Steel Co., Pittsburgh, Pa., \$155,760. Radial brick

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chimney, N. W. Kellogg, 225 Broadway, New York, \$7,777.

Y. W. C. A., Coatesville, Pa. Contract awarded W. J. Elliott, Coatesville, Pa. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owners, Y. W. C. A., care of Miss May Penman, Coatesville, Pa. Brick, steel, reinforced concrete, 3-stories and basement, 46x80 feet, slag roof, maple and pine floors, plumbing, roof ventilators, ornamental iron work, cinder concrete blocks, caulking, steam heat, electric light, metal lath, tile and marble work, rolled steel skylights.

Residence and Garage (alts. and add.), Rayham road, Merion, Pa. Contract awarded F. B. Davis & Son, 240 North Sixteenth street, Philadelphia. Architect, Ralph E. White, 1518 Walnut street, Philadelphia. Owner, Roy Bookmeyer, Merion, Pa. Stone, hollow tile, stucco, 2½ stories and basement, 18x12 feet, slate roof, wood deck roof, oak and pine floors, plumbing, painting, glazing, hardware, electric light, metal lath, tile work, bond, ornamental iron.

Residence and Garage, Lot No. 164, Sheffield avenue, Overbrook Hills, Pa. Contract awarded C. C. Pace, Cynwyd, Pa. Architect, T. B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Miss Emma M. Haig, Ardmore, Pa. Brick, steel, 2½ stories and basement, 18x38 feet, shingle roof, oak and pine, cement floors, plumbing, hot water heat, electric light, tile work, metal lath, bond, ornamental iron work.

Residence (alts. and add.), Valley Forge, Pa. Contract awarded Clark & Harvey, Packard Building, Philadelphia. Architects, Ritter & Shay, Packard Building, Philadelphia. Owner, Joseph Neff Ewing, Valley Forge, Pa. Stone, 2½ stories and basement, 44x31 feet, shingle roof, oak, pine floors, excavation, painting, glazing, cement work, stone masonry, iron work, screens, plumbing, hot water heat, electric light, marble and tile work, flagstone, metal lath, plastering.

Residence and Garage, Villa Nova, Pa. Contract awarded W. D. Lukens, North Wales, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Warren C. Graham, Fox Building, Philadelphia. Stone, 2½ stories and basement, 89x30 feet, slate or shingle roof, pine, oak, cement

floors, tile work, bond, ornamental iron work.

School, York Springs, Pa. Contract awarded Luther Sachs, Gettysburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, York Springs School Board, A. T. Bennett, York Springs, Pa. Brick, steel, 1 story, 33x130 feet, composition roof, maple floors (heating, plumbing and electric separate).

Residence and Garage (alts. and add.), 216 Wynecote road, Jenkintown, Pa. Contract awarded Roy Randall, Jenkintown, Pa. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owner, Walter A. Conlan, on premises. Brick, 2½ stories and basement, hot water heat, alterations, electric work, alterations, metal lath, tile work, shingle roof, oak and pine floors, plumbing, plastering, painting, glazing.

College (add.), Rydal, Pa. Contract awarded Henry Specht, Willow Grove, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Ogontz School, Rydal, Pa. Stone, 2½ stories and basement, slate roof, oak and pine floors, steam heat, electric light, metal lath, bond, ornamental iron work.

Convent, Bridgeport, Pa. Contract awarded C. D. Burns, Bridgeport, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, Our Mother of Sorrows Church, Bridgeport, Pa. Stone, steel, 2½ stories and basement, 30x47 feet, asbestos shingle roof, oak and pine floors, steam heat, electric light, ornamental iron work.

Church, Lansdowne, Pa. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia. Architect, C. P. Berger, 1512 Walnut street, Philadelphia. Owners, St. Paul's Evangelical Lutheran Church, Lansdowne, Pa. Stone, 1 story and basement, 80x45 feet, asbestos shingle tile roof, cork tile floors, plumbing, bluestone, steam heat, electric light, fire doors, bond, ornamental iron work, excavation.

Residence and Garage, Drexel Park, Pa. Contract awarded B. J. Campbell, Flanders road, Philadelphia. Architect, Harold E. Williams, Drexel Hill Park, Pa. Owner, Sarah I. Cosgrave, care of architect. Stone, steel, 2½ stories and basement, 55x31 feet, garage 20x27 feet, shingle roof, oak and pine, cement floors, plumbing, metal weather strip, hot water heat, flagstone, electric light, metal lath, tile and

marble work, bond, ornamental iron work, area gratings, plumbing, insulite.

Store and Office (alts. and add.), 20½ North Queen street, Lancaster, Pa. Contract awarded W. B. Aierstuck, 34 East Chestnut street, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, B. W. Shaub, 445 College avenue, Lancaster, Pa. Stone front, brick, 3 stories, 30x40 feet, composition roof, hardwood and linoleum floors, heating extension, electric lighting, tile, marble, casement windows, bronze work.

Comfort Stations (2), Concession Office, Secretary's Office and Ticket Office, Reading, Pa. Contract awarded Fink Construction Co., 510 Walnut street, Reading, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owners, Reading Fair Co., A. Deysher, 522 Court street, Reading, Pa. Frame and cinder block, 1 story, 20x20 feet, 14x16 feet, 20x30 feet, 8x10 feet, asbestos shingle roof, pine floors, electric light, concrete floors, steel sash.

Residence, East Petersburg, Pa. Contract awarded George Beamsderfer, Landisville, Pa. Architects, Jamison & Minick, 23 North Third street, Harrisburg, Pa. Owner, M. S. Sahn, 931 North Third street, Harrisburg, Pa. Brick, 1 story, hardwood floors, electric light, tile work.

Residence (English cottage type), Royersford, Pa. Contract awarded Charles Funderwhite, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, J. Everett Yerk, 322 Walnut street, Royersford, Pa. Brick, 2 stories, 35x34 feet, black slate roof, pine and oak floors, cement block, hot water heat, electric light, metal lath and celotex, tile work, wood sash, Morgan doors.

Residence and Garage, Bryn Mawr, Pa. Contract awarded Unkerfer Brothers, Otis Building, Philadelphia. Architect, John W. Ames, 148 State street, Boston, Mass. Owner, Francis H. Bohlen, Wayne, Pa. Stone, 2½ stories and basement, 90x30 feet, slate and copper roof, oak and pine floors, bond, ornamental iron work.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Northumberland County, R-182, Gearhart, Rush and Ralpho Townships. One course reinforced concrete. F. D. Kesler, Northumberland, \$446,771.86.

Clearfield County, R-57, Sec. 2, Decatur Township, Chester Hill Borough. One course reinforced concrete. Cooper Construction Co., Clymer, Pa., \$202,777.84.

Blair County, R-260, R-537, Frankstown Township. One course reinforced concrete. E. H. & L. A. Brua, Jr., Hollidaysburg, Pa., \$224,009.78.

Montgomery County, R-362, Abington Township, A-5576. One course reinforced concrete. George I. Thompson Co., Clearfield, Pa., \$42,027.24.

Washington County, R-268, Sec. 10, East Bethlehem Township, Centreville Borough. One course reinforced concrete, grading and drainage. Petriello Brothers, South Brownsville, Pa., \$56,295.94.

Tioga County, R-103, Lawrence Township, Lawrenceville Borough. One course reinforced concrete. Smouse & Kreamer, Galeton, Pa., \$153,870.02.



AN EXAMPLE OF ART CAEN STONE, WINDOW OF M. CAPLAN, 331 SOUTH ST.

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New Jersey Construction News

Buildings (5), Southwest Corner Haddon avenue and Old White Horse pike, Camden, N. J. Preliminary plans in progress. Architect,

name withheld. Owners, George D. Wetherill & Co., Inc., on premises.

Y. M. C. A., \$50,000. East Holly avenue, Pitman, N. J. Tentative plans drawn. Work contemplated. Architect not yet selected. Owners, Y. M. C. A., care of Elmer E. Long, Broadway and Federal streets, Camden, N. J. Size of lot, 225x150 feet. Will contain social, reading rooms, gymnasium, assembly room.

Home for the Aged, \$50,000. King's Highway East and New Cooper River Drive, Haddonfield, N. J. Architect taking bids due July 11th, 4 P. M. Architect, H. E. Hall, Merchantville, N. J. Owners, Order of Shepherd of Bethlehem, care of Charles E. Carr, Publicity Building, Camden, N. J. Brick, steel, 2 stories, 145x32 feet, 40x32 feet, slag and slate roof, light concrete floors, bar joist, linoleum and wood floors, metal ceilings, dumb waiter, concrete foundations, vapor heat, electric light, metal lath, tile or terrazzo floors, plumbing.

Church and School (alts. and add.), Maple Shade, N. J. Architect taking bids due July 15th. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Our Lady of Perpetual Help Church, Maple Shade, N. J. Brick, steel, 2 stories, 49x135 feet, slate roof, maple and pine, cement floors, metal lath, tile work, bond, ornamental iron work.

Trunk Sewer System, Camden County, N. J. Work contemplated. Owners, Camden County, care of Dr. Thomas B. Lee, member of Camden County Sewage Survey Commission, Haddonfield, N. J.

New Jersey Contracts Awarded

Armory, Newark, N. J. Contract awarded F. & C. Haerter, Union City, N. J., \$239,500. Plumbing, Schrinell Brothers, Newark, N. J., \$15,500. Heating, Newark Heating Co., Newark, N. J., \$19,800. Electric, K. W. Electric Co., Newark, N. J., \$9,470. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Armory, Woodbury, N. J. Contracts awarded. General, plumbing and heating awarded to J. T. Allen, Woodbury, N. J. Electric to R. McMahon, Newark, N. J. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, cut stone, steel, 1 story and basement, 107x67 feet, slate, built-up roof, linoleum floors, membrane waterproofing, ornamental iron, caulking, fire doors, tile, marble, metal lath.

Pathological Laboratory, Vineland, N. J. Contract awarded Delaware Form Co., 1001 Chestnut street, Philadelphia. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, concrete, steel, 1 story and basement, 28x43 feet, slate roof, cement floors, metal lath, bond, ornamental iron work.

Temporary Work Shop, Southwest Corner Haddon avenue and Old White Horse pike, Camden, N. J. Contract awarded Carl E. Wildell, Woodlyn, N. J. Architect, Joshua C. Jeffers, Camden, N. J. Owners, George D. Wetherill & Co., Inc., on premises. Frame, 1 story,

26x48 feet, corrugated iron roof, cement floors, electric light.

Residence, 923 Mechanic street, Camden, N. J. Contract awarded Barney Poduszazak, 1327 Morton street, Camden, N. J. Architect, private plans. Owner, Albert Kalkiewicz, 1192 Jackson street, Camden, N. J. Brick, 2 stories, 16x52 feet, slag roof, hot water heat.

Factory (fire repairs), Fifteenth and Pine streets, Camden, N. J. Contract awarded John J. Welsh, 529 Washington street, Camden, N. J. Owners, Wilkes, Martin & Wilkes Co., on premises. Rebuilding of third and fourth floors.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Bridges, Route 25, Sec. 8A, Rahway and Linden, Union County. W. J. Wilck, Perth Amboy, N. J., \$17,989.10.

Route 4, Sec. 5, from Paterson to Areola, Bergen County. Gerritsen Construction Company, Lodi, N. J., \$273,102.79.

Route 39, Sec. 4, 5 and 6, South Pemberton road to Oak Shade, Burlington County. Fabio Matazzo, 1287 Kaighn avenue, Camden, N. J., \$314,968.01.

Miscellaneous Construction News

Hospital for Colored, Jacksonville, Fla. Preliminary plans in progress. Will take bids in fall, 1929. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, The Brewster Hospital, Jacksonville, Fla. Brick.

School, Sykesville, Carroll County, Md. Owners will be ready for bids in ten days. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Board of Education, Westminster County, Md. S. Unger, Westminster, Md. Brick, steel, tile, 2 stories and basement, 60x105 feet, slag roof, wood deck, maple floors, safety treads, roof ventilators, cast stone, steel sash, bond.

Miscellaneous Contracts Awarded

Residence and Garage, Wilmington, Del. Contract awarded C. J. Dougherty, 600 Tannall street, Wilmington, Del. Architect, Albert Ely Ives, Delaware Trust Building, Wilmington, Del. Owner, Royal Hill, care of architect. Stone, 2½ stories, 160x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile, marble.

Engineering Building, Newark, Del. Contract awarded J. B. Ferguson, Hagerstown, Md. Architect, Charles Z. Klauder, 1420 Walnut street, Philadelphia. Owners, University of Delaware, Dr. Hullihen, on premises.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

AS THE EDITOR SEES IT

THE semi-annual report of building operations in Philadelphia for the first six months of this year, published in detail on other pages of this issue of the GUIDE, shows a decrease of \$3,258,885 in total value of work of all kinds compared to the first six months of 1928.

The total estimated cost of all work for which building permits were issued by the Philadelphia Bureau of Building Inspection in the six months ending June 30, 1929 was \$59,485,200, compared to \$62,744,085 for the first six months of 1928. The number of operations declined 1889 for the corresponding periods. To June 30, 1929, permits were issued for 3,842 new buildings at an estimated cost of \$53,908,155; additions 808 at cost of \$2,666,765; alterations and repairs, 1,478 costing \$1,958,465; miscellaneous permits, 1,398, costing \$953,815.

The type of building showing the largest increase in cost was stores in which there was an increase from \$1,818,190 in first half year 1928 to \$11,133,500 in first half of 1929. There was a decrease in the number from 60 in 1928 to 45 in 1929. The \$10,000,000 store of Strawbridge & Clothier started in January caused the great increase in this type of building.

In office buildings there was an increase in estimated cost in 1929 to June 30 over first half of 1928, although a drop in the number of office buildings. In first six months of 1928 twenty-eight office buildings cost \$3,205,665; in 1929 twenty-one office buildings cost \$6,644,545. Warehouses in the periods under comparison showed a notable increase in value although the same number were started in both 1928 and 1929. In 1928 50 warehouses cost \$2,423,015, in 1929 the same quantity cost \$6,301,540. In only two other types of buildings, Churches and power houses, was there any increase in estimated cost of 1929 over 1928 to June 30.

The greatest decrease is noticeable in residences of the two-story type; in the first half of 1928, 4683 houses cost \$19,638,500; in first six months of 1929, 2,915 houses cost \$12,192,635, a decline of 1,768 and a drop in cost of \$7,445,864.

Garages likewise show a decline from 761 costing \$1,738,230 to 556 costing \$1,129,870. Schools show a drop in estimated cost from \$3,267,190 in 1928 first half year to \$2,861,190 for same period in 1929; the same number of schools, 12, were started in corresponding periods.

Bureau of Building Inspection records show the following first-half totals for the ten years preceding 1929:

1919, \$21,982,990; 1920, \$38,538,245; 1921, \$16,617,010; 1922, \$52,429,145; 1923, \$75,217,095; 1924, \$72,573,485; 1925, \$86,014,515; 1926, \$70,199,500;

1927, \$61,511,490, and 1928, \$62,744,085.

Two-story house aggregates during the first six months of these years were: 2384, in 1919; 827, in 1920; 535, in 1921; 4744, in 1922; 4892, in 1923; 5487, in 1924; 7730, in 1925; 4965, in 1926; 4888, in 1927, and 4683, in 1928.

January with \$17,161,370 estimated value of work started is the largest month in 1929. June with \$10,916,385 was next in volume of work started. March, with 1728 operations, of which 959 were houses of the two-story type, showed greatest activity.

The record for the first six months of 1928:

Month	Permits	Operations	Estimated Cost
Jan.	557	741	\$ 4,482,600
Feb.	615	1,266	9,157,835
March	900	2,072	10,657,745
April	900	1,550	9,161,970
May	998	1,737	13,583,485
June	890	2,049	15,700,450

The record for the corresponding six months of 1929:

Month	Permits	Operations	Estimated Cost
Jan.	543	869	\$17,161,370
Feb.	556	748	5,024,620
March	832	1,728	10,160,135
April	987	1,727	7,329,520
May	926	1,264	8,893,170
June	804	1,190	10,196,385

In two story dwellings the Forty-Second Ward shows the largest number, 1060, started in first half of 1929, although 300 less than same period 1928. The Thirty-fifth Ward with 631 two story houses was second in number, but likewise showed a drop from 1428 in 1928 to 631 in first half of 1929. In no wards were there increases over the first half of 1928.

Substantial losses have occurred in many territories through the country but there is still a great volume of work in prospect and any reason for uneasiness in the building industry.

Now that Insulating Plaster Base is being used so extensively and material dealers are finding an increasing demand for such lines as Insulating Boards and Insulating Lath, I believe that giving a little history of our experience in pioneering and successfully building up a large business on these items, may be of interest to my many friends.

We purchased our first car of Insulating Board some six years ago, and as is usual, we went ahead on our regular lines, thinking it would sell itself and without effort on our part, when we did begin to realize that this wasn't the case, we put forth every effort to unload, regardless of where and how it was to be

used, and with the result that we had a number of complaints.

We carefully investigated every complaint, and were then convinced that here was a new material with wonderful possibilities, not only for the dealer, but the consumer, if ordinary horse-sense was practiced in its sale and use.

Looking back and analyzing the complaints we had, the following are but a few of the contributory causes:

1. Panels nailed cross-wise of studs, without headers, instead of length-wise.
2. Panels not properly centered on studs, nor nailed as directed.
3. Panels were forced into place, not having clearance for expansion.
4. Studs were not true nor properly spaced, and of green stock, which warped and pulled away from panels.
5. Studs and joists were 24-inch centered, instead of 16-inch centered, as directed.
6. Panels expanded after first coat of plaster was applied causing buckling, cracks and unevenness.
7. Difficulty was experienced in some cases, due to the plasterers skimping on amount of material used.

The carpenters and plasterers soon became just as anxious to attain good results as were we, and cooperated in seeing that the manufacturer's instructions were fully carried out, however, we still had occasional complaints, where the material was plastered on, that in some cases it would expand to such an extent as to buckle and crack the first coat of plaster.

These complaints would come up where the board used was part of the same car from which other jobs we had furnished, were perfect, and in checking this, we could only arrive at the following conclusion:

Insulating Boards and Lath are shipped from the mill bone-dry and stacked in piles as they emerge from the dry kiln, and it takes considerable time for these panels to adjust themselves and take on the prevalent air moisture content. We found most of these complaints we had were where delivery to the job was made from stock just received from the mill, and that these panels if immediately nailed and exposed on both sides as they were, took up the moisture content very quickly and naturally, this caused an expansion, the only outlet being to buckle between the studs.

We also found where fresh stock was so used as a plaster base, that the rapid absorption of moisture from the plaster was detrimental, and also caused a violent expansion of the boards.

It wasn't feasible for us to stock such materials until they were acclimated to

prevalent moisture conditions in our territory, and we also could see where it was impossible for the manufacturer to ascertain in advance of his shipments, what conditions would be in such and such a territory, and at the time the boards would be used, and thereby adjust the moisture content of the boards to such a situation.

Knowing that it has always been good practice to wet kiln dried Wood Lath and shingles before using, I tried out the same plan on Insulating Boards and Lath. I made arrangements in my yard and saw to it that on each order, every panel of Insulating Board and Lath was well sprinkled and then repiled, at least thirty-six hours before they were delivered to the job and used. In doing this, I knew that each panel would expand to the maximum and that only one thing could result—a slow contraction and not to a noticeable extent, and in the Lath, the contraction would not take place until the plaster had set, and this slight readjustment would be taken up by the resiliency of the Lath.

We followed this plan, and with such success that our customers are now sold on the idea and advantages of Insulating Boards and Lath, and we are now selling several cars each month, with universal satisfaction, whereas our first car lasted nearly a year and caused lots of grief.

We realize that when something happens, a blame must be placed somewhere and invariable, the responsibility is placed on whatever new material is used—never on the human element involved, however, we have faith in the justification of selling and using Insulating Boards and Lath, and if our experience in promoting their successful use is of value, we are glad to pass it on.—*Exchange*.

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—*John D. Rockefeller*.

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

PHILADELPHIA AS A BUILDING CENTER

Official Figures Showing in Detail the Constructive Activity of the First Six Months of 1929

New Buildings Erected from January 1 to June 30, 1929

	Jan.	Feb.	March	April	May	June	Operations	Estimated Cost
Banks	0	1	0	0	0	0	1	\$175,000
Bath houses	0	0	0	0	1	0	1	56,460
Churches	2	0	2	1	1	1	7	899,500
Clubs	0	0	0	0	1	0	1	700,000
Dormitories	0	0	1	0	0	0	1	250,000
Dwellings, one-story	0	0	2	1	2	1	6	18,000
" two-story	306	210	959	759	304	377	2915	12,192,635
" three-story	4	6	18	13	18	4	63	1,050,050
" frame	1	2	2	2	3	1	11	60,900
Engine and boiler houses	0	0	1	0	1	0	2	53,000
Garages	31	49	105	146	132	93	556	1,129,870
Gymnasiums	0	0	1	2	0	0	3	62,700
Halls	0	0	1	0	0	0	1	35,000
Hospitals	0	1	0	0	0	0	1	650,000
Manufactories	5	2	8	4	7	8	34	1,278,600
Miscellaneous buildings	2	8	13	9	4	3	39	342,840
Office buildings	3	0	4	5	3	6	21	6,644,545
Power houses	0	0	0	2	0	1	3	800,000
Railroad stations	0	0	0	0	0	2	2	50,000
Recreation buildings	0	0	0	0	1	0	1	6,500
Rooming houses	0	0	0	0	0	1	1	80,000
Schools	3	0	4	0	4	1	12	2,861,190
Stables	0	0	1	0	0	1	2	32,500
Stores	8	9	8	5	5	10	45	11,133,500
Tenement houses	4	7	7	8	12	8	46	6,979,000
Warehouses	5	7	11	11	6	10	50	6,301,540
Workshops	3	4	4	3	2	1	17	64,825
Total New Buildings	377	306	1152	971	507	529	3842	\$53,908,155
Additions	85	89	135	160	173	166	808	2,666,765
Alterations and Repairs	205	204	242	292	297	238	1478	1,958,465
	667	599	1529	1423	977	933	6128	\$58,533,385
Fire escapes							18	9,765
Heaters							3	4,760
Oil burners							122	54,200
Signs							145	49,055
Miscellaneous work							1110	834,035
Total work of all kinds							7526	\$59,485,200

TWO-STORY DWELLINGS

Wards	2	3	4	21	22	23	33	34	35	36	38	40	41	42	45	46	Totals
January	..	..	..	1	39	3	58	30	32	..	19	3	..	120	..	1	306
February	..	..	..	..	1	10	26	66	11	..	2	15	44	27	8	..	210
March	1	..	..	2	26	38	..	78	270	..	1	1	248	283	11	..	959
April	..	..	..	15	28	21	74	..	77	..	7	..	41	495	1	..	759
May	..	..	..	9	..	19	20	1	107	..	2	27	35	78	6	..	304
June	..	1	1	4	2	26	..	..	134	10	9	30	101	57	2	..	377
Totals	1	1	1	31	96	117	178	175	631	10	40	76	469	1060	28	1	2915

THREE-STORY DWELLINGS

Wards	21	22	23	29	34	35	38	42	48	Totals
January	..	2	..	..	2	..	..	..	..	4
February	..	4	..	..	..	..	1	1	..	6
March	1	12	2	..	1	1	..	1	..	18
April	1	5	..	..	..	1	6	..	..	13
May	..	3	1	1	..	5	3	4	1	18
June	..	2	..	..	..	1	..	1	..	4
Totals	2	28	3	1	3	8	10	7	1	63

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Metalweld, Inc. . . . 26th and Hunting Park Ave., Phila.

AIR COMPRESSORS FOR HIRE
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.

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S. E. Cor. Dover and Somerset Sts., Phila.

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Strandwitz & Scott, Inc.,
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AREA GRATINGS
Kerlow Steel Flooring Co., 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE
DeGiuseppe Art Marble Co., 818 N. 48th St., Phila.
Pigeon, Ernest A., 4231 Filbert St., Phila.

ARTESIAN WELLS
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

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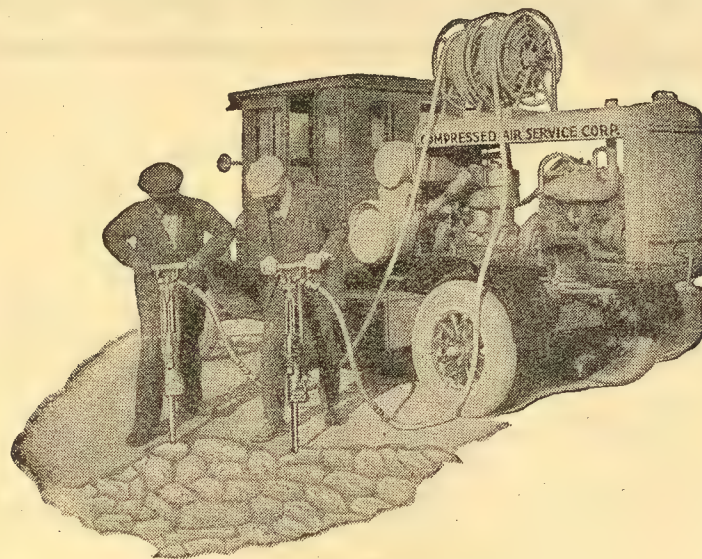
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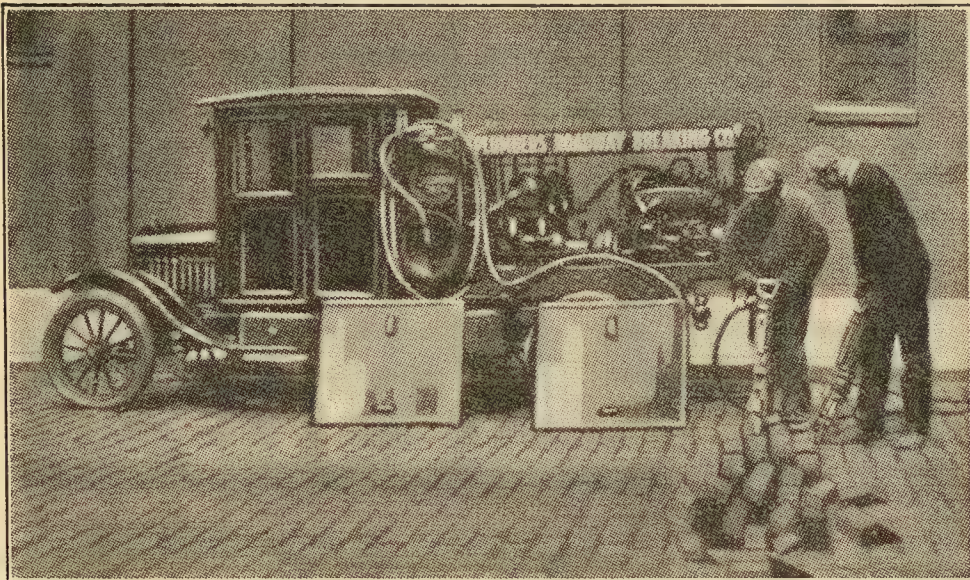
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Engineering and the Building Trades

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Apartment House, Forty-third and Locust streets, Philadelphia. Owner, Martin Isen, Real Estate Trust Building, Philadelphia. Brick, 4 stories. Work contemplated.

Branch Bank (alts.), Twentieth and Passyunk avenue, Philadelphia. Work contemplated. Sketches in progress by several architects. Architect will be announced soon. Owners, Sixth National Bank, Norman Ives, President, Second and Pine streets, Philadelphia. General interior and exterior alterations.

District Office Building, 2005-11 South Broad street, Philadelphia. Plans in progress. Architect, John T. Windrim, 1201 Chestnut street, Philadelphia. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Brick, steel. Details undecided.

Store Building, 1924-36 Market street, Philadelphia. Plans in progress. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, United States National Realty Co., care of architect. Granite, limestone, brick, steel, terra cotta, 25 stories, 99x176 feet, slag roof, concrete floors, 8 elevators, sprinkler system, steam heat, electric light, oil burners, tile and marble work, rolled steel sash and skylights.

Residences (20), Roosevelt Boulevard and Rhawn street, Philadelphia. Plans in progress. Architect, private plans. Owners, S. Sponimsky & Son, Franklin Trust Building, Philadelphia.

Detached houses, 20 to be started soon, balance to follow.

Bank (alts. and add.), 2246-48 Lehigh avenue, Philadelphia. Plans in progress. Architect will take bids in two weeks. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Lehigh National Bank, Dr. M. F. Sullivan, President, 2238 West Lehigh avenue, Philadelphia. General interior and exterior alterations. (Note change in architect.)

Residences (6), Godfrey avenue, between Marshall and Sixth street, Philadelphia. Architect, private plans. Owners taking sub-bids. Owners, William Fischer's Sons, Sixty-seventh avenue and Broad street, Philadelphia. Stone, brick, 2 stories and basement, 18x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work.

Residences (23), Seventh street, between Godfrey and Spencer street, Philadelphia. Owners taking sub-bids. Architect, private plans. Owners, William Fischer's Sons, Sixty-seventh avenue and Broad street, Philadelphia. Stone, brick, 2 stories and basement, 18x36 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, cinder concrete block.

Factory, Sixty-eighth and Greenway avenue, Philadelphia. Architect ready for bids. Owners, American Cigar Co., 1111 Fifth avenue, New York City, and 6808 Greenway avenue, Philadelphia. Architect, Joseph D. Weiss, 119 North Fifty-seventh street, New York. Brick, reinforced concrete, 4 stories, 100x170 feet.

Residences (27), Fern street, between Front and Mascher streets, Philadelphia. Owner

ready for bids in a week. Architect, private plans. Owner, Francis B. J. Branagan, Broad and Erie avenue, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work.

Soda Fountain Plant, \$1,500,000. Erie avenue, F to G street, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, I. Fischman & Son, Tenth and Allegheny avenue, Philadelphia. Tapestry brick, reinforced concrete, steel, limestone, 1 and 2 stories, 480x375 feet, slag roof, cement floors, architectural terra cotta, metal lath, tile and marble work, brick work. Architect will take bids in 10 days.

Residence (alts. and add.), 4244 Tackawanna street, Philadelphia. Owner taking sub-bids. Architect, Christian H. Fries, Oxford Bank Building, Philadelphia. Owner, Frank Alivia, 4344 Tackawanna street, Philadelphia. Brick, 2 stories (add.), 20x20 feet, general interior alterations.

Residence (alts. and add.), 535-37 Allen lane, Philadelphia. Architect taking bids due July 18th. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owners, George Woodward, Inc., North American Building, Philadelphia. Stone, 2½ stories and basement, irregular in size, tile roof, oak and pine floors, metal lath, tile work (plumbing, heating, electric reserved), bond, ornamental iron work.

School (add.), Fifth and Cayuga streets, Philadelphia. Architect taking bids due July 24th. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Henry's Roman Catholic Church, Rev. Harry E. Koenes, on premises. Stone, 2 stories and basement, 20x45

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feet (2) wings), slag roof, pine and cement floors, metal lath, bond, ornamental iron work.

Manufacturing Building, Northeast Corner Torresdale and K street, Philadelphia. Architect taking bids due July 18th. Architects, Leopold Haupt, Jr., and Robert N. Dippy, 1600 Walnut street, Phila. Owners, Francis A. Bruner, Inc., Southeast Corner Coral and Hager streets, Philadelphia. Reinforced concrete, brick, steel, 4 stories and basement, 142x68 feet (plumbing, heating, electric and sprinkler reserved), slag roof, gypsum roof deck, cement floors, elevators, metal window guards, rolled steel sash, kalamein doors, bond, floor hardener, area gratings, steel partitions.

Stores (alts. and add.), 5201-3-5 Market street, Philadelphia. Owners taking bids. Architect, H. G. Mitchell, 44 West Eighteenth street, New York City. Owners, United Cigar Store Co., and Whelen Drug Co., 44 West Eighteenth street, New York City.

Residences (31), \$109,500. North side Fanshawe street, West of Hawthorne street, Philadelphia. Permit issued. Architect, private plans. Owner, Joseph Sheperea, 4847 North Broad street, Philadelphia. Brick, 2 stories, 16x36 feet, 13x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Garage (add.), 209 South Ninth street, Philadelphia. \$3,500. Permit issued. Architect, private plans. Owners, Mundy Corporation, 207 South Ninth street, Philadelphia. Brick, 1 story add., 18x76 feet, slag roof, cement floors.

Sub-Station, \$8,500. South side Sedgley avenue, West of Frankford avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Pennsylvania Railroad Company, 15 North Thirty-second street, Philadelphia. Concrete block, 1 story, 23x33 feet.

Residence, \$34,000. North side Mt. Pleasant avenue, East of Wissahickon avenue, Philadelphia. Permit issued. Architects, Wallace & Warner, Inc., Franklin Trust Building, Philadelphia. Owner, Morton O. Stafford, 616 Leverington avenue, Philadelphia. Stone, 3 stories, 44x29 feet, 18x23 feet, hardwood and pine floors, electric light, tile work, slate roof.

Brick Fence Wall, \$2,000. West side Twenty-sixth street, South of Christian street, Philadelphia. Permit issued. Owners, Philadelphia Electric Co., Ninth and Sansom streets, Philadelphia. Brick.

Toilet Buildings (3), \$2,100 total. North side Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Owners, Gulf Refining Co., Girard Point, Philadelphia. Brick, 1 story 9x12 feet.

Residences (24), \$132,000. North side St. Vincent street, West of Loretta street, Philadelphia. Permit issued. Architect, private plans. Owner, J. F. Burkart, 5519 North Fifth

street, Philadelphia. Brick, 2 stories, 16x23 feet, 18x26 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Swimming Pool, Tacony and Levick street, Philadelphia. Low bidders: Nason & Cullen, Ardmore, Pa., \$6,630; McCormick-Lenham, Fortieth and Chestnut streets, \$7,746; plumbing, C. G. Martindaell, 7359 Ogontz avenue, \$1,334. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Bureau of Recreation, Department of Public Works, 595 City Hall, Phila. Steel, 120x40 feet.

Contract No. 179, Subway, City Hall Station, Broad Street Subway. Low bidders: No. 179, Edward Fay & Son, Fifty-fifth and Vine streets, \$47,991.50; Kaufman Construction Co., 26 South Fifteenth street, Philadelphia, \$49,963; No. 189, Otis Elevator Co., 502 North Nineteenth street, Philadelphia, \$49,672. Owners, Department of City Transit, City Hall Annex, Philadelphia. No. 179, construction of passageway, escalator well for City Hall Station, Broad Street Subway. No. 189, furnish escalator No. 1 and install.

Miscellaneous Sewer Work. Low bidders. Philadelphia. Owners, Department of Public Works, Bureau of Engineering and Surveys, City Hall, Philadelphia. Allen's lane, Lincoln to Emlen, E. Ventresco, 6016 Ross street, Philadelphia, \$10,868. Doreset, Stenton to Mansfield, Leva Brothers, 104 West Gale street, Philadelphia, \$6,127.50. Little Tacony Creek, Southwest of Lewis, to Frankford Creek, O'Neill Construction Co., 123 East Mermaid lane, Philadelphia, \$60,385. Mansfield, Mt. Airy to Gowen, O'Neill Construction Co., 123 East Mermaid lane, Philadelphia, \$13,099.98.

Miscellaneous Paving and Grading. Low bidders. Philadelphia. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Comly street, Torresdale to State road, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$42,647.89. Sparks street, Mascher to Front street, Mack Paving Co., Nicetown lane and C street, \$4,182. Sydenham, Sixty-seventh to point 130 feet North, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$1,591.50. Seventy-first avenue, Broad to Old York road, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$8,281.50. Disston street, Torresdale to Keystone State road, etc., Curtis Brothers, State road, Philadelphia, \$3,436.25. Levick, Torresdale to Cottage, Walker, etc., Curtis Co., State road, Philadelphia, \$11,000.70. Venango, Frankford to Tulip street, Mack Paving Co., Nicetown lane and C street, \$27,988. Third street, Oxford to Montgomery avenue, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$39,864. Fourth street, Morris to York road, Montgomery Paving Co., Harrison Building, Philadelphia, \$31,951.

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Twenty-fifth street, Pennsylvania to Fairmount avenue, Municipal Paving Co., Washington Square Building, Philadelphia, \$3,788.10. Sixty-second, Walnut street to Spruce, Municipal Construction Co., Washington Square Building, Philadelphia, \$17,489.42. Somerset, Hancock to A street, C. G. Centrone, Bailey Building, Philadelphia, \$17,114.30. Twentieth street, Spring Garden to Fairmount avenue, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$7,995.05.

Hospital (alts. and add.), York and Tabor roads, Philadelphia. Architect taking bids due July 22nd. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, Jewish Hospital, on premises.

Storage Building, \$6,000. Southeast corner Twelfth and Spring Garden streets, Philadelphia. Permit issued. Architect, private plans. Owner, A. Schmerling, Twelfth and Spring Garden streets, Philadelphia. Brick, 1 story, 35 x 55 feet.

Gas Station, \$3,200. Southeast corner Torresdale avenue and Leveck street, Philadelphia. Permit issued. Architect, private plans. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Brick, 1 story, 15x18 feet.

Day & Zimmerman, Engineers, 112 North Broad street, Philadelphia, taking bids due July 20th for furnishing and fabricating steel for Power Plant and Cell House Dining Hall roof structure, at Gratersford, Pa.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Fire House, 82nd and Tinicum ave., Phila. Contracts awarded. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, Bureau of Property, City Hall, Philadelphia. Brick, steel, reinforced concrete, granite, 2 stories and basement, 75x82 feet. Robbins Contracting Co., 1137 North Front street, Philadelphia, \$75,835; electric, Independent Wiring Co., 1613 Sansom street, \$2,300; plumbing, Fred C. Wackenhutt, 2416 Frankford avenue, Philadelphia, \$4,175; heating, Fred G. Wackenhutt, 2416 Frankford avenue, Philadelphia, \$3,479; drainage, A. Curado, 5920 Magnolia avenue, Philadelphia, \$1,349.

Residence and Garage, Trevoise road and Southampton road, Somerton, Philadelphia. Contract awarded Roy Randall, Jenkintown, Pa. Architect, W. Ellis Groben, 1051 Sixty-ninth avenue, Philadelphia. Owner, Charles H. Westrich, care of Sears & Roebuck Co., Roosevelt Blvd., Phila. Stone, frame, 2 1/2 stories and basement, 45x34 feet, shingle roof, oak, pine and cement floors, hot water heat, electric light.

Stores (alts.), Southwest Corner Sixty-seventh and Elmwood avenue, Philadelphia. Contract awarded David Goldman, 5376 West Montgomery avenue. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owner, B. H. Wachs, 640 Woodcrest street, Philadelphia. Demolition, excavation, concrete, cement, brick, steel, miscellaneous iron work, mill work, roofing, plastering,

painting, glazing, metal ceilings, plumbing, tile work, electric work, hot water heat.

Church (int. alts.), Lehigh and Memphis street, Philadelphia. Contract awarded Zenithern Co., Otis Building, Philadelphia. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Ann's Roman Catholic Church, Rev. William M. Sullivan, on premises. Concrete work, bond, metal lath, marble work, terrazzo work, Zenithern floors.

Store and Restaurant Building (alts. and add.), 3634 North Broad street, Philadelphia. Contract awarded Harry R. Rust, Inc., 41 North Hutchinson street, Philadelphia. Architect, private plans. Owners, Horn & Hardart Baking Co., 208 South Warnock street, Philadelphia. Brick, 2 stories, 15x104 feet, slag roof, dumb waiter, steam heat, tile and marble work.

Building (alts. and add.), 1916 Spruce street, Philadelphia. Architect, William Potter, Real Estate Trust Building, Philadelphia. Owner, John F. Lewis, on premises. Steam heat, electric light, slag roof, demolition, plastering, brick work, iron work, painting, glazing, plastering, plumbing. Contract awarded W. O. Springer, 2004 Naudain street, Philadelphia.

Store and Residence, \$9,000. 3027 North Twenty-second street, Philadelphia. Contract awarded D'Aintello & D'Aindrea, 2329 West Somerset street. Architects, Stackhouse & Donohoe, 313 South Smedley street, Philadelphia. Owner, Donato Santaniello, 2957 North Twenty-second street, Philadelphia. Brick, 3

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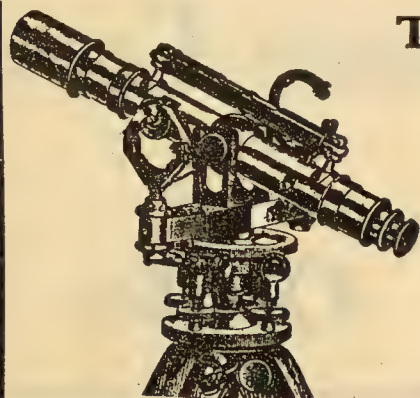
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stories and basement, 17x80 feet, slag roof, composition and wood floors, hot water heat, electric light, metal bulks, plate glass.

Garage (add.), 1240 to 1246 North Twenty-sixth street, Philadelphia. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia. Architect, William A. Stewart, 1519 Sansom street, Philadelphia. Owners, Curtin Martin Newspaper Co., Inc., Fifth and Chestnut streets, Philadelphia (Public Ledger Building). Reinforced concrete, brick, 2 stories and basement, 72x180 feet, gypsum slag roof, concrete floors, steam heat, electric light, rolled steel sash, ramp.

Storage Building, Broad and Huntingdon streets, Philadelphia. Contract awarded I. S. Grindrod, 10 South Eighteenth street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Reading Railroad, Twelfth and Market streets, Philadelphia. Brick, 1 story, 56x20 feet, slag roof, cement floors.

Temple of Youth, Parkway at Twenty-second street, Philadelphia, \$175,000. Contract awarded W. R. Dougherty, 1608 Sansom street, Philadelphia. Architect, Charles Z. Klauder, 1420 Walnut street, Philadelphia. Owners, Philadelphia Council of Boy Scouts of America, care of Dr. C. D. Hart, 1924 Chestnut street, Philadelphia. Brick, concrete, limestone, steel, tile roof, cement floors, tile work, 2 stories and basement, 60x85 feet, metal lath, plastering, rolled steel skylights, roof ventilators.

Residence, \$24,500. South side Waterman street, East of Crefeldt street, Philadelphia. Contract awarded George S. Roth & Sons, 230 East Graver's lane, Philadelphia. Architects, Durham & Irvine, 312 South Broad street, Philadelphia. Owner, William B. Franklin, Jr., Haverford, Pa. Stone, 3 stories, 63x51 feet, 16x23 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Studio (add.), 1608 South Bambrey street, Philadelphia. Contract awarded Man Camp Construction Co., 1033 Chestnut street, Philadelphia. Architect, Louis Manfredi, 2228 Mifflin street, Philadelphia. Owners, Reber-Friel, Inc., on premises. Brick, 2 stories add., 48x98 feet, electric work, glazing, roof ventilators, glass skylights.

Warehouse (alts. and add.), 1216-18 Cherry street, Philadelphia. Contract awarded Fred A. Havens Co., 845 North Nineteenth street, Philadelphia. Engineer, M. A. Webster, 1600 Arch street, Philadelphia. Owners, F. W. Potts' Sons Co., Inc., on premises. Brick, steel, 2 stories and basement, 66x34 feet, slag roof, cement work, concrete roof, deck, con-

crete and plank floors, elevators, plumbing, steam heat, electric light, steel sash, fire doors, bond.

Mill (add.), Edmund and Hellerman streets, Philadelphia. Contract awarded Christian H. Fries, Oxford Bank Building, Philadelphia. Owners, Sunrise Knitting Mills, on premises. Brick, steel, 1 story, 58x100 feet, slag roof, cement floors, steam heat, rolled steel sash. Builders taking sub-bids.

Office (alts.), \$4,000. 1326 Walnut street, Philadelphia. Contract awarded Thomas M. Keeley, 4411 Germantown avenue, Philadelphia. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owners, Toland & Trimble, Wayne, Pa. General alterations.

Building (alts. and add.), Large and Orthodox streets, Philadelphia. Contract awarded Wintz Brothers, 1618 Seller street, Philadelphia. Architect, John H. Rackie, 4341 Frankford avenue, Philadelphia. Owners, La France Textile Industries, on premises. Reinforced concrete, brick, carpentry and mill work.

Grandstand (add.), Twenty-first and Lehigh avenue, Philadelphia. Contract awarded (steel) Belmont Iron Works, Twenty-second and Washington avenue, Philadelphia. Engineer, P. M. Sax, Penfield Building, Philadelphia. Owners, American Baseball Club of Philadelphia, on premises. Steel, wood, concrete stairs, 700 seats.

Garage, 4257 Penn street, Philadelphia. Contract awarded F. G. English & Son, 1608 North Carlisle street, Philadelphia. Architect, J. Walter Eastburn, 4656 Penn street, Philadelphia. Owners, Frankford Grocery Co., Penn and Unity streets, Philadelphia. Brick, steel, 1 story and basement, 60x125 feet, slag roof, cement floors, steam heat, electric light, bond, ornamental iron work.

Residences (2), \$4,000 each. 2337-39 Rhawn street, Philadelphia. Contract awarded Morris Kaplan, 813 South Fifth street, Philadelphia. Architect, private plans. Owners, Isard & Orleans, 504 Shubert Building, Philadelphia. Brick, 2 stories, 16x26 feet, 18 feet 6 inches x 24 feet, slag roof, pine floors, hot water heat, electric light.

Residence (add.), \$2,200. 2834 Reese street, Philadelphia. Contract awarded Samuel Poppek, 237 East Ellen street, Philadelphia. Architect, private plans. Owner, Morris Corbin, 119 Poplar street, Philadelphia. Brick, 2 stories add., 9x13 feet.

Residence and Store (add.), \$2,000. 355 West Mt. Pleasant avenue, Philadelphia. Contract awarded W. F. Roth, Jr., 6732 German-

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town avenue, Philadelphia. Architect, private plans. Owner, Antonio Yonni, on premises. Concrete block, 2 stories add., 15x16 feet.

Gasoline Station, \$10,000. Northeast Corner Broad and Godfrey avenue, Philadelphia. Contract awarded Albert E. Janke, 6518 North Eighth street, Philadelphia. Architect, private plans. Owner, John Janke, 6239 North Broad street, Philadelphia. Brick, 1 story, 16x21 feet, slag roof, cement floors, electric work.

Residence (add.), \$2,500. 149 Pelham road, Philadelphia. Contract awarded William J. Gruhler Co., 219 High street, Philadelphia. Owner, Carl Hilinetag, on premises. Stone, 1 story add., 11x12 feet 6 inches.

Sales Room, \$3,500. 2415 South street, Philadelphia. Contract awarded Adelphia Auto Sprinkler Co., Fourth and Vine streets, Philadelphia. Owners, J. D. Howley Co., Inc., on premises. Sprinklers.

Residence and Store (add. and alts.), \$3,000. 4608-10-12 Lancaster avenue, Philadelphia. Contract awarded J. Marcellus & Co., 1231 North Fifty-first street, Philadelphia. Owners, Weinstein Supply Co., 5928 Haverford avenue, Philadelphia. Brick, 1 story add., 40x50 feet, general alterations.

Residence (alts. and add.), \$5,000. Northwest Corner Mermaid lane and Pocono street, Philadelphia. Contract awarded John R. Schaeffer, 3731 North Seventh street, Philadelphia. Architect, private plans. Owner, John B. Lear, 319 Mermaid lane, Philadelphia. Stone, 1 story add., 6x6 feet, general alterations.

Residence, \$5,000. South side Rhawn street, East of Crispin street, Philadelphia. Contract awarded John H. Kull, 210 Church road, Rockledge, Pa. Architect, private plans. Owner, Judson W. Brown, 1725 Sydenham street, Philadelphia. Brick, 2 stories, 24x30 feet, hardwood and pine floors, electric work.

Radio Plant (add.), \$3,000. North side Ontario street, West of C street, Philadelphia. Contract awarded Stewart Brothers Co., 2526 North Orkney street, Philadelphia. Owners, Philadelphia Storage Battery Co., on premises. Tile, 1 story add., 21x61 feet.

Store and Office (alts.), \$3,000. 5201 Arch street, Philadelphia. Contract awarded Smith & Hallström, 7943 Oxford avenue, Philadelphia. Owners, Walgreen, Inc., on premises. General alterations.

Store and Residence (add.), \$2,300. 5200 American street, Philadelphia. Contract awarded Northern Construction Co., 5302 North Fifth street, Philadelphia. Owner, John

W. Widman, on premises. Brick, 2 stories add., 16 feet 4 inches x 19 feet.

Store and Residence (alts.), \$2,000. 605-07 South Sixth street, Philadelphia. Contract awarded H. H. Construction Co., 1011 Chestnut street, Philadelphia. Owners, Fine & Miller, 1708 North American Building, Philadelphia. General alterations.

Miscellaneous Grading Work, Philadelphia. Contracts awarded. Owners, Bureau of Highways, Department of Public Works, City Hall, Philadelphia. Eastwick, Sixty-third and Sixty-seventh street, Thomas P. Lee, 5629 Cherry street, Philadelphia, \$8,225.20. Eastwick, Fifty-sixth, Lindbergh Boulevard, etc., Thomas P. Lee, 5629 Cherry street, Philadelphia, \$4,346.46. Temple, Vernon and Sedgwick, Joseph Herzog, 4314 York road, Philadelphia, \$1,514.42. Boyer street, McPherson to Rounfort, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$3,498.86. Hagerman, Benner to Devereaux, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$7,149.22. Locust, Sixty-second to Cobb's Creek Parkway, Municipal Paving Co., Second and Wingohocking streets, \$7,489.40. Wanamaker, Lebanon to Malvern, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$4,498.46. Asphalt resurfacing by heater method: Group No. 1, Eastern Asphalt Co., Pennsylvania Building, \$45,482.20; Group No. 2, Union Paving Co., 123 South Twenty-first street, \$73,896.20; Group No. 3, Barber Asphalt Co., 1600 Arch street, \$48,252.46. Redress granite block: Franklin, Vine to Spring Garden, Mazzola & Marano, 739 South Seventh street, Philadelphia, \$22,503.50. Fourth street, Fairmount to Girard, Elkins Paving Co., 834 North Holly street, Philadelphia, \$37,109; Ninth street, Spruce to Pine, Atlas Paving Co., 317 South Sixth street, \$6,071. Seventeenth street, Susquehanna to Lehigh, Joseph Salvucci, 512 North Sixty-fifth street, \$32,582.36. Repairs to intersections, Germantown and Susquehanna, Seventh and Chestnut streets, Tenth and Arch, Eleventh and Filbert, Thirteenth and Arch, Sixteenth and Walnut, Eighteenth and Fairmount, Nineteenth and Chestnut, Twentieth and Wharton, Twentieth and Walnut, Twenty-second and Columbia, Municipal Paving Co., Second and Wingohocking streets, \$31,815.84. Furnish and laying sheet asphalt, Walnut Street Bridge, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$3,699. Bureau of Street Cleaning, 919 City Hall Annex, Philadelphia—A, preheaters, Bartram, Inc., Fifty-first and Gray's avenue, Decarie Incinerator Co., Long Island City, N. Y., \$2,085; B, smoke exhaust

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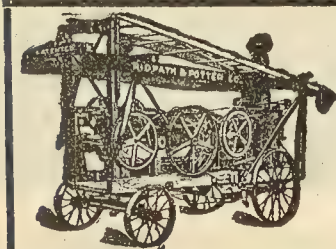
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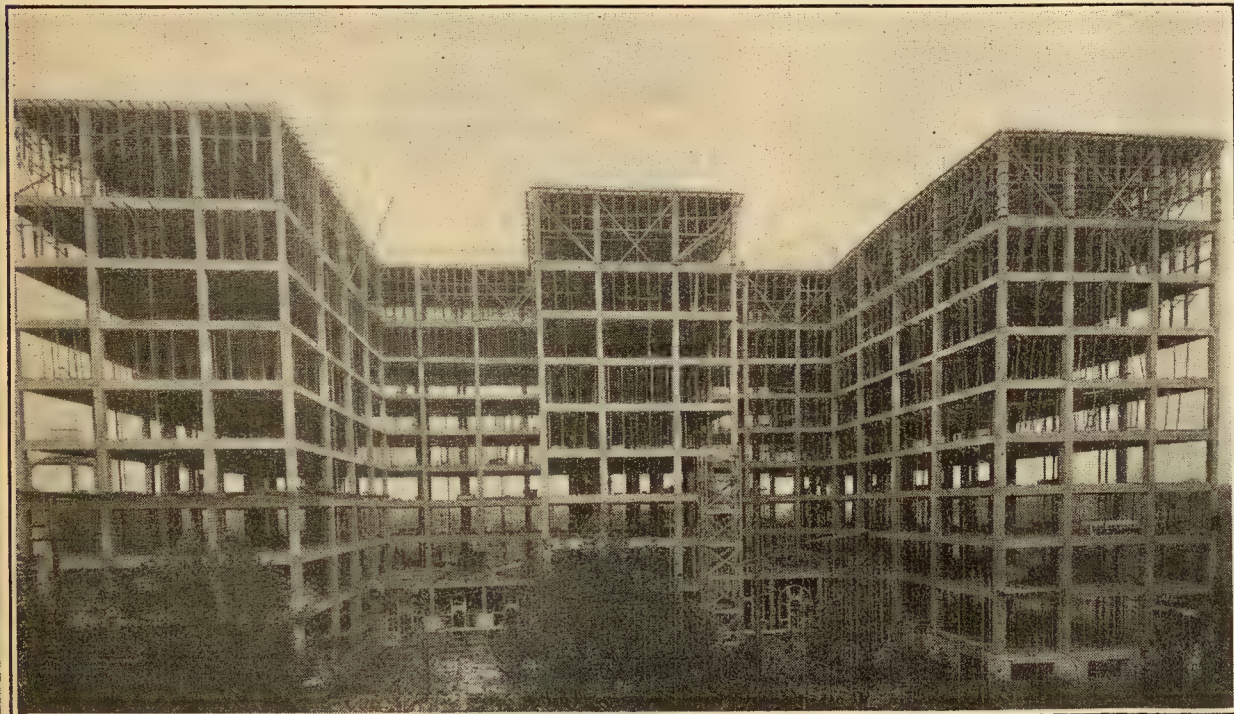
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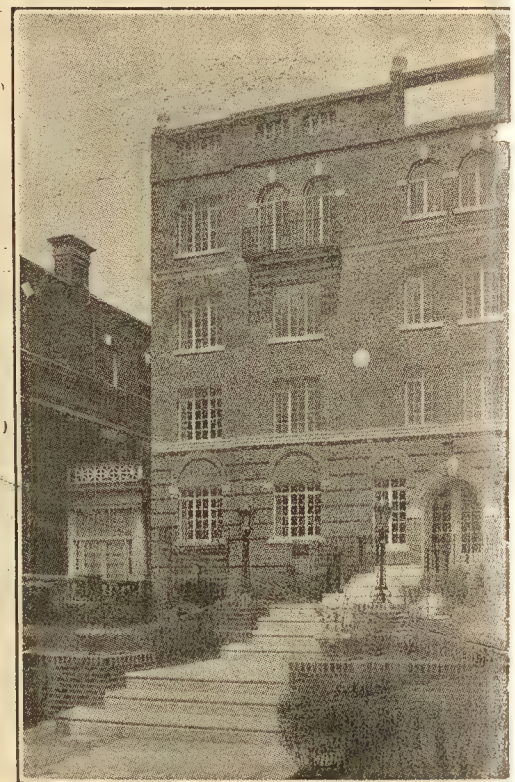
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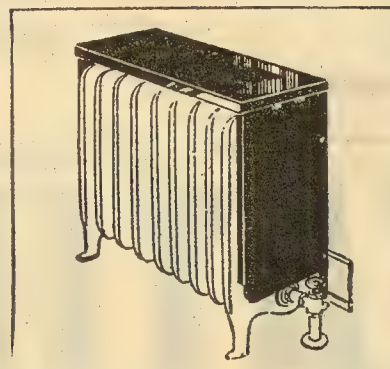
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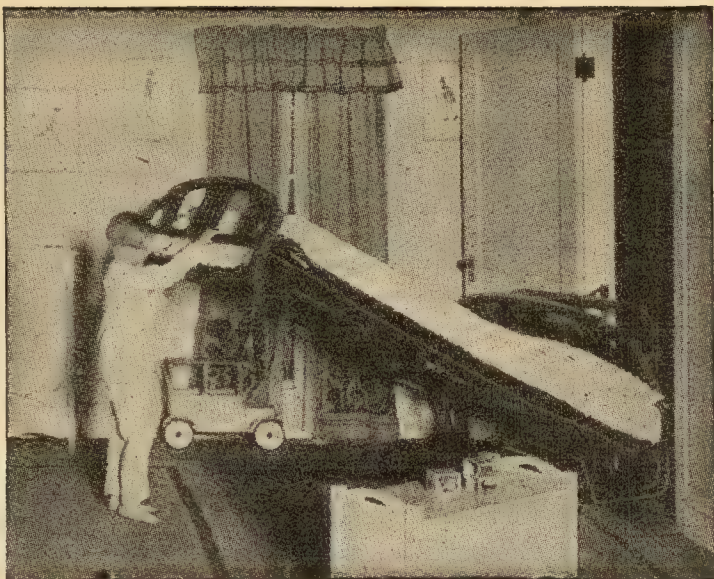
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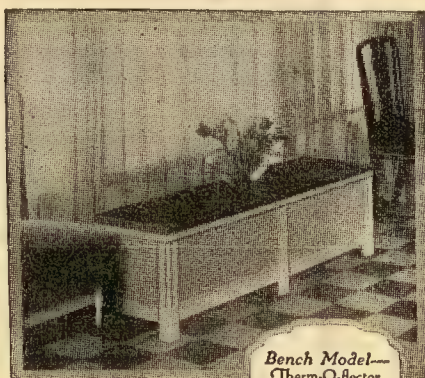
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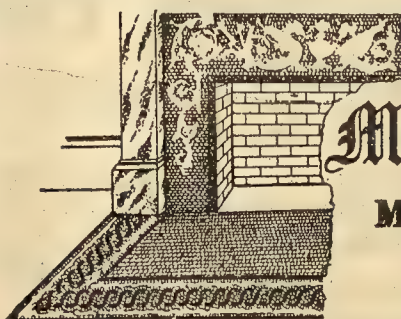
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in Bartram, Inc., George F. Dobbins, Inc., 1020 South Forty-seventh street, Philadelphia, \$890.

Cleaning and Dyeing Plant (add.), \$3,000. 2669 Frankford avenue, Philadelphia. Contract awarded Frank Kaiser, 4816 Summerdale avenue, Philadelphia. Architect, private plans. Owners, Daily Cleaners and Dyers, on premises. Brick. 2 story addition, 20x75 ft.

Pennsylvania Construction News

Grade School, Sawmill, near Rockledge, Montgomery County, Pa. Plans in progress. Owners, Abington Township School Board, Jesse H. Gilbert, President, Edgehill, Montgomery County, Pa. Brick, limestone, 1 story, 56x156 feet, slate roof, warm air heat. Architects, Druckenmiller & Williams, 112 South Sixteenth street, Philadelphia. (Note change in architect.)

Residences (12), Lansdale, Montgomery County, Pa. Plans in progress. Architects, Franklin & Conner, 17 West Main street, Lansdale, Pa. Owners, Franklin Pottery Co., Lansdale, Pa. Brick, 2½ stories.

High School (add.), \$50,000. Harper and Hilcrest streets, Morrisville, Pa. Plans in progress. Architect, Thomas B. Stockham, Stockham Building, Morrisville, Pa. Owners, School District of Morrisville, Mr. William Lair, President, Morrisville, Pa. Brick wing, 2 stories, 100x30 feet, and auditorium.

Store, DeKalb street, Bridgeport, Montgomery County, Pa. Plans in progress. Architect, George M. Hitchcock, Jr., Main and Cherry streets, Norristown, Pa. Owner, Steven O'Leary, Fourth and DeKalb streets, Norristown, Pa. Brick, steel, limestone, 1 story, 40x75 feet.

School (alts.), Palmer Township, Pa. Plans in progress. Architect, A. D. Chidsey, Jr., 239½ Northampton street, Easton, Pa. Owners, Palmer Township School Board, A. B. Grey, Secretary, R. D. 2, Easton, Pa. General alterations.

Church, Dupont, Pa., \$35,000. Plans in progress. Architect, Theo. Preitz, 313 Lackawanna avenue, Scranton, Pa. Owners, Polish National Catholic Congregation, Rev. B. J. Januszewski, 212 Wyoming avenue, Dupont, Pa.

Residence and Garage, Spring Mill road, Villa Nova, Pa. Plans in progress. Architects will build. Architects, Flanigen & Flanigen, 828 Lancaster avenue, Bryn Mawr, Pa. Owner, Charles Willing Huber, Meeting House lane, Merion, Pa., and 260 North Twenty-second street, Philadelphia.

Gasoline Service Station, Southwest Corner Chester pike and Rambler road, Glenolden, Pa. Plans in progress. Owner, Charles Kahn, Provident Trust Building, Philadelphia. Lessees, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 1 story, 60x80 feet.

Sunday School, Hellertown road, Quakertown, Bucks County, Pa. Work contemplated. Owners, Trinity Lutheran Church, Rev. N. B. Yeager, Quakertown, Bucks County, Pa.

Apartments (2) (alts. and add.), 152 East Gay street, West Chester, Pa. Plans ready for bids. Architect, William Corcoran, 139 East Biddle street, West Chester, Pa. Owner, Mrs. Lewis Hickman, 18 North Matlock street, West Chester, Pa. Brick, 2 stories, 30x15 feet, general interior alterations.

Mill (add.), Quakertown, Bucks County, Pa. Owners taking sub-bids. Architect, James Rapp, Richlandtown, Bucks County, Pa. Owners, Tohickon Hosiery Co., Quakertown, Bucks County, Pa. Brick, steel, 1 story add., 68x135 feet, heat units, slag roof, iron stairs, rolled steel sash, elevators.

Residence and Garage (alts.), Third and Broad streets, Souderton, Pa. Architect taking sub-bids. Architect, Jerome S. Landes, Souderton, Pa. Owner, William Holly, Main and Diamond streets, Souderton, Pa. Brick, 2½ stories, 32x48 feet, 12x20 feet, 14x16 feet, asbestos shingle roof, hardwood, mineral, pine floors, vapor heat, electric light, tile work.

Residence (alts.), Third and Broad streets, Souderton, Pa. Architect taking sub-bids. Architect, Jerome S. Landes, Souderton, Pa. Owner, Harry Hunsberger, Souderton, Pa.

Brick, tile porch, general interior alterations, hot water heat, electric light, tile work, asbestos shingle roof, hardwood floors.

Apartments (3), Norwood, Delaware County, Pa. Owner taking sub-bids. Architect, private plans. Owner, James F. Lenhart, Norwood, Delaware County, Pa. Brick, 3 stories, 36x96 feet, slag roof, hardwood floors, hot water heat, electric light, oil burners, tile and marble work.

Apartment House and 15 Garages, Winderenere and Audubon avenues, Wayne, Delaware County, Pa. Owners ready for sub-bids. Architect, private plans. Owner, Phyl A. Greenspan, Twelfth and Race streets, Philadelphia. Brick, steel and stucco, 2 stories, 100x250 feet, slag roof, hardwood floors, vapor heat, oil burner, electric light, tile work, incinerator.

Hotel, Stores (2) and Apartment (fire rebuilding), Southwest cor. Second and Carre streets, Essington, Delaware County, Pa. Owner taking sub-bids. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Isaac Miller, Carre avenue, West of Second street, Essington, Pa. Brick, 2 stories, 38x80 feet, slag roof, hot water heat.

High and Grade School, Womelsdorf, Pa. Owners will be ready for bids in about one week. Architect, W. M. High, 230 North Sixth street, Reading, Pa. Owners, Womelsdorf School District, L. G. Schaum, secretary, Womelsdorf, Pa. Brick, steel, 2 stories and basement, 111x95 feet, built-up roof, maple floors, safety treads, roof ventilators, waterproofing and dampproofing, cinder concrete block, bronze, wrought iron pipe, iron stairs, fire doors (heating, plumbing and electric separate).

Residence, Easton, Pa. Architect will be ready for bids in two weeks. Architect, A. D. Chidsey, Jr., 239½ Northampton street, Easton, Pa. Owner, Miss Greisbach, care of architect. Brick, 1½ stories, 25x40 feet, slate roof, maple floors, hot air heat, electric light.

Country Club (add.), Easton, Pa. Architect about ready for bids. Architect, William Michler, Drake Building, Easton, Pa. Owners, Northampton County Country Club, Mr. Walters, Chairman, Building Committee, Easton, Pa. Frame, stucco, 2 stories, 50x50 feet, asbestos shingle roof, maple floors, electric light, tile work.

School, Citronia, Pa. Owners will be ready for bids in ten days. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, South Whitehall Township School Board, O. N. Miller, President; C. M. Stauffer, Secretary, 732 North Twenty-sixth street, Allentown, Pa. Brick, steel, 2 stories and basement, 67x90 feet, slag roof, maple floors.

Church, Fullerton, Pa. Architects will be ready for bids in ten days. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, St. John's Reformed Church, M. Newhead, Fullerton, Pa. Stone, brick, slate roof, maple floors, hot water heat, electric work.

Double Residence, Bethlehem, Pa. Architect taking bids due July 19th. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, John Peters, care of architect. Brick, 2½ stories, 36x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Fire House, Greenleaf and Bayard streets, Allentown, Pa. Architects taking bids due July 23rd. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Keystone Fire Co., Allentown, Pa. Brick, structural steel, 2 stories, 40x65 feet, Spanish tile roof, cast stone, electric light, linoleum, yellow pine and terrazzo floors, casement windows.

Gymnasium, Free and DuPont streets, Ridley Park, Pa. Owners taking bids due July

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23rd, 8 P. M. Architect, H. W. Newberg, 416 Harrison street, Ridley Park, Pa. Owners, School District of Ridley Park, Frederick Benner, President; H. M. Davis, Secretary, Ridley Park, Pa. Brick, steel (plumbing, heating, electric separate bids), hot air heat, maple floors. Certified check, 5 per cent. Plans available July 16th at architect's office. Deposit, \$25. Refund, \$20.

Residence (alts. and add.), 227 Washington lane, below Wyncote road, Montgomery County, Pa. Architects taking bids due July 18th, 3 P. M. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, Mrs. John Woodall, on premises. Stone, 6x15 feet, slate roof, oak and pine floors, electric light, heating extension.

College Building, Chambersburg, Pa. Architects taking bids due August 1st. Architects, Ludlow & Peabody, 101 Park avenue, New York City. Owners, Wilson College, Chambersburg, Pa.

Junior High School, near Swedeland, Pa. Owners taking bids due July 23rd, 6.30 P. M. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Upper Merion Township, A. Mays Hill, Port Kennedy. Brick, steel, 216x107 feet.

School Building, South Langhorne, Bucks County, Pa. Owners taking revised bids due July 22nd. Architect, Henry L. Reinhold, Jr., 10 South 18th street, Philadelphia. Owners, School District of South Langhorne, Bucks County, Pa. Brick, cast stone, steel, 1 story and basement, 124x60 feet (plumbing, heating, electric separate bids), slag roof, maple and cement floors, metal lath, bond, steel partitions.

New Power Plant, Schuylkill Haven, Pa. Low bidders. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Borough of Schuylkill Haven, J. A. Harmer, Schuylkill Haven, Pa. Brick, steel, concrete, 1 and 2 stories and basement, 102x38 feet, wing 48x63 feet. H. A. Becker, Schuylkill Haven, Pa., \$38,229, bid irregular, check for 1 per cent. instead of 10 per cent.; Gordon Nagel, Pottsville, Pa., \$40,800; Taggart & Thompson, 2814 North Broad street, Philadelphia, \$41,240.

Contract No. 3. West Plaza Approach completion of Soldiers' and Sailors' Memorial Bridge, Harrisburg, Pa. Owner taking bids due July 30th, 2 P. M. (S. T.) Architect, Gehron and Ross, 101 Park avenue, New York City. Consulting Engineer, J. E. Greiner Co., Lexington Bldg., Baltimore, Md. Owner, Commonwealth of Pennsylvania, B. E. Taylor, Secretary, Harrisburg, Pa.

Club House, West Chester, Chester County, Pa. Plans in progress. Architect will take bids in a few days. Architect, Wm. Cocoran, 130 East Biddle street, West Chester, Pa. Owner, Levi M. Hood Lodge, No. 159, J. B. P. O. E., 314 East Gay street, West Chester, Pa. Brick, steel, cast stone, 4 stories, 40x120 feet, built-up roof, steam heat.

Clothier Memorial, \$100,000. Swarthmore, Pa. Plans in progress. Contract awarded McNeill Construction Company, Schaff Building, Philadelphia, ready for sub-bids. Architects, Karcher & Smith, 1520 Locust street, Philadelphia. Owner, Swarthmore College, Dr. Frank Aydelotte, President, Swarthmore. Stone, 1 story, balcony and basement.

Paving, Norristown, Pa. Owner taking bids due July 29th noon, Daylight Saving Time. Owner, Borough of Norristown, F. Lester Smith, Norristown, Pa. Certified check 5 per cent; surety bond 80 per cent. Marshall street between Noble and Forrest avenues; Blackberry alley between Noble and Stanbridge street; Rapp alley between Blackberry alley and Oak street; Arch street between Airy avenue and Penn street.

Residence and Garage, Tennis avenue, Ambler, Pa. Owner taking bids due as soon as possible. Architect, F. C. Trout, care Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, H. R. Sulzer, care Sulzer Company, 252 North Eleventh street, Philadelphia. Stone, 2½ stories, 37x31 feet 6 in., slate roof, hardwood floors, tile work, electric light, moist warm air heat.

Residence (add.), Haverford, Pa. Architect taking bids due as soon as possible. Architect, Edwards & Hoffman, 315 South 15th street, Philadelphia. Owner, Dr. Kenneth E. Appel, Haverford, Pa.

High School, Collingdale, Pa. Low bidders: L. Rosengarten, Otis Building, Philadelphia, \$67,972; Geo. H. Evans, Inc., 1416 Vine street, Philadelphia, \$71,144; plumbing, Bulman Bros., Fifth and Cumberland streets, Philadelphia, \$5,252; heating, Mechanical Equipment Company, 214 South 12th street, \$12,949; electric, Jesse C. Marshall, Moore, Pa. Architect, Clarence Brazier, Crozer Building, Chester, Pa. Owner, School Board of Collingdale, Pa., W. H. Milbourne, Secretary, Collingdale, Pa. Brick, reinforced concrete, steel, 2 stories and basement, 120x56 feet.

Pavement, Pottstown Township, Montgomery County, Pa. Owners taking bids due Aug. 2nd at 10 A. M. Owners, State Highway Department, James L. Stuart, Secretary of Highways, Harrisburgh, Pa. Route 146, Section 5, Pottstown Township, Montgomery County, 5,566 feet. One course reinforced concrete.

Archives Building, Bethlehem, Pa. Plans in progress. Architects, Wiegner & Synder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian College, 87 West Church street, Bethlehem, Pa. Fireproof, 3 stories, 80x100 feet.

Church (add.) and Sunday School, Hazleton, Pa. Plans in progress. Architects, Sheridan & Knobloch, Markle Bank Building, Hazleton, Pa. Owners, Trinity Lutheran Congre-

gation, Rev. H. C. Bergstresser, 63 North Church street, Hazleton, Pa.

Sub Pumping Station, Sunbury, Pa. Engineer taking bids due July 30th. Engineer, William H. Dechant & Sons, 632 Washington street, Reading, Pa. Owners, Sunbury Water Company, care Engineers.

Swimming Pool, Fountain Springs, near Ashland, Pa. Architect will soon be ready for bids. Architect, D. H. Grootenboer, Schuylkill Trust Building, Pottsville, Pa. Owners, Fountain Springs County Club, John J. Reilly, Secretary, 70 North Paxton street, Centralia, Pa.

Pennsylvania Contracts Awarded

Building, Bywood avenue, Upper Darby, Pa. Contract awarded Smith-Hardican Co., 1809 Callowhill street, Philadelphia. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Springfield Realty Co., care of architect. Reinforced concrete, brick, cast stone, steel, 2 stories and basement, 72x79 feet, slag roof, steam heat, electric light, metal lath, tile and marble work, rolled steel sash, bond, ornamental iron work, cement floors, plastering, painting, mill work, plumbing, glazing, waterproofing, damp-proofing.

Factory, Minersville, Pa. Contract awarded Maynard R. Kohler, 115 Market street, Williamsport, Pa. Architect, W. D. Shollenberger, 11 West Fourth street, Williamsport, Pa. Owners, H. D. Bobb Co., 40 Leonard street, New York City. Reinforced concrete, brick, steel, 5 stories and basement, 80x150 feet, slag roof, concrete and gypsum roof, maple floors, elevators, painting, metal lath, steel sash, rolled steel and kalamein doors.

Residence No. 8, Merion Golf Manor, Haverford Township, Delaware County, Pa. Con-



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tract awarded John E. Kearney, Wynnewood, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, William H. Wilson & Co., 1617 Walnut street, Philadelphia. Stone, steel, 2½ stories and basement, 54x33 feet (plumbing, heating, electric, weather strip reserved), shingle roof, oak and pine floors, hollow tile, painting, glazing, metal lath, tile, painting, glazing, metal lath, tile work, bond, ornamental iron work, excavation.

Cottage and Dormitory, Justafarm, Southampton, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owners, George W. Elkins Home, on premises, Stone, steel, slate roof, pine, oak floors, concrete, cement floors, iron work, carpentry and mill work, metal lath, plastering, tile work, steam heat, electric work, plumbing, 2½ stories, 30x50 feet, wing 10x20 feet.

Squash Courts (3), Bala, Pa. Contract awarded David M. Hunt, Greene and Cheltenham ave., Phila. Architect, private plans. Owners, Philadelphia Country Club, Bala, Pa. Cinder block, stucco and wood, 1 story, 68x56 feet, slag roof.

Parochial School, Third and Fayette streets, Conshohocken, Pa. Contract awarded Morlock Davis Co., Fifteenth and Race streets, Philadelphia. Architect, George I. Lovatt, 220 South Sixteenth street, Philadelphia. Owners, St. Matthew's Roman Catholic Church, Rev. P. J. Gallagher, on premises. Stone, cast stone, steel, 2 stories and basement, 100x120 feet, slate roof, cement and oak floors, metal lath, tile and terrazzo work, rolled steel sash, fire and kalamein doors, bond, ornamental iron work, cinder concrete block, casement windows, waterproofing, flagstone, leaded glass, painting, glazing, vitrolite oak floors, linoleum, reinforced concrete work, gypsum block.

Residence, Skytop Lodge, Cresco, Pocono, Pa. Contract awarded W. C. Hummel, Cresco, Pocono, Pa. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Dr. J. Thompson, Cresco, Pocono, Pa. Stone, frame, 2½ stories, 56x90 feet, slate roof, hardwood floors, vapor heat, electric light, tile work, casement windows.

Residence and Garage (add.), Ardmore, Pa. Contract awarded Milton W. Young, 2037 North Sixty-third street, Philadelphia. Architect, Joseph T. Fraser, 17 Benezet street, Chestnut Hill, Pa. Owner, Henry N. Justi, Jr., Ardmore, Pa. Stone, 2½ stories and basement, 16x25 feet, 16x28 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work.

Residence (add.), \$40,000. Haverford, Pa. Contract awarded J. S. Cornell, 1528 Cherry street, Philadelphia. Owner, John B. Thayer, on premises. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Stone, steel, 2½ stories and basement, irregular in size, slate roof, oak and pine floors.

Residence and Garage, East Wharton road, Glenside, Pa. Contract awarded Sauter & Swertner, 1505 Race street, Philadelphia. Architect, private plans. Owner, Henry M. Weir, Glenside, Pa. Stone, frame, stucco, 2½ stories and basement, 29x34 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath, tile work.

Residence (alts. and add.), Conshohocken, Pa. Contract awarded Oscar C. Frees, Conshohocken, Pa. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, George T. Lukens, on premises. Cinder block, stucco, 2½ stories and basement, 22x24 feet, slate roof, oak and pine floors, plumbing, screens, hot water heat, electric light, metal lath, tile work.

Residence (alts. and add.), 411 State road, Cynwyd, Pa. Contract awarded W. O.

Springer, 2004 Naudain street, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Colonel Erskine Bains, on premises. Plastering, carpentry and mill work, painting, glazing, linotile floors, hot water heating, electric work, metal lath, tile work.

Residence and Garage, Jenkintown, Pa. Contract awarded W. D. Lukens, North Wales, Pa. Architects, Wigham & Cochrane, care of builders. Owner, John Smith, care of builders. Stone, steel, 2½ stories and basement, 30x80 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, casement windows.

Residence and Garage, Elkins Park, Pa. Contract awarded Robert S. Feeney and John Dallas, Elkins Park, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Edward Reukauf, Jr., 5026 Mervine street, Philadelphia. Stone block and stucco, 2½ stories, 30x50 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Residence and Garage, Elkins Park, Pa. Contract awarded Robert S. Feeney and John Dallas, Elkins Park, Pa. Plans in progress. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, name withheld. Stone block, stucco, 2½ stories, 30x70 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Church, Highland Park, Pa. Contract awarded N. W. Bryan, 10 South Eighteenth street, Philadelphia. Architects, Furness & Evans Co., 313 South Fifteenth street, Philadelphia. Owners, Protestant Episcopal Church of the Holy Sacrament, Rev. George W. Barnes, West Chester pike and Park avenue, Highland Park, Pa. Stone, fireproof, steel, reinforced concrete, 1 story, 50x90 feet, slate or tile roof, vapor heat, electric light.

Residence (alts.), Church road, near Sunnybrook Farm Railroad Station, Montgomery County, Pa. Contract awarded J. W. Moffley, 3rd, Germantown and Bethlehem pike, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Edward N. Benson, 1428 Walnut street, Philadelphia. (Plumbing, heating, electric reserved), shingle roof, oak and pine floors, plastering, stone work, carpentry and mill work, painting, glazing, iron work, metal lath, tile work.

Residence and Garage (alts. and add.), Skippack pike, near Blue Bell, Pa. Contract awarded John W. Moffley, 3rd, Germantown avenue and Bethlehem pike, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Cooper Howell, on premises. Stone, limestone, steel, 2½ stories and basement, 47x20 feet, shingle roof, oak and pine floors, cement floors, waterproofing, flagstone, metal lath, tile and marble work, ornamental iron work, area gratings.

Consolidated School, Green Lane-Marlborough, Pa. Contracts awarded. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Joint School Board of Green Lane and Marlborough Townships, A. H. Van Fossen, Secretary, Green Lane, Pa. Brick, cast stone, steel, 1 story and basement, 120x54 feet, slag roof, maple floors, metal lath, bond, ornamental iron work. General: W. L. Van Fossen, Green Lane, Pa., \$19,250. Heating, American Heating & Ventilating Co., 1505 Race street, Philadelphia, \$4,290. Plumbing, Warren Smith, Boyertown, Pa., \$970. Electric, not yet awarded.

School (add.), \$3,871. Hood road, near Sharon avenue, Sharon Hill, Pa. Contract awarded Taggart & Thompson, 2814 North Broad street, Philadelphia. Architect, Mahlon

J. Bye, Summit avenue, Primos, Pa. Owners, Darby Township School Board, H. A. Fisher, Secretary, Darby Township, Pa. Brick, steel, second story add., 20x30 feet, 2 wings, slag roof, metal lath, plumbing, maple and pine floors, roof ventilators, ornamental iron work, cinder concrete block.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Jefferson County, R-61, Pine Creek Township, Brookville Borough. One course reinforced concrete. Milliron Construction Co., Dubois, Pa., \$55,807.53.

Indiana County, R-319, Sec. 2, Sec. R-1, Armstrong Township, Shelocta Borough. One course reinforced concrete. Farris Engineering Co., Pittsburgh, Pa., \$49,283.45.

Bucks County, R-386, Springfield and Durham Townships. Grading and drainage. H. S. Shafer, Nazareth, Pa., \$35,746.46.

Lehigh County, R-443, Sec. 3, Weisenberg Township. One course reinforced concrete. Continental Contracting Co., Knickerbocker Building, Baltimore, Md., \$178,084.

Blair County, R-53, S-R2, Allegheny and Juniata Townships. One course reinforced concrete. Clark Brothers Construction Co., Cherrytree, Pa., \$288,060.94.

Bradford County, A-5800, Springfield and Durham Townships. Grading and drainage. N. D. Richardson Construction Co., Scranton, Pa., \$19,900.75.

Lawrence County, R-693, Sec. 1, Wilmington and Pulaski Townships. One course reinforced concrete. J. D. Devine Co., Meadville, Pa., \$169,920.55.

Erie County, R-351, Waterford Township, Summit Township. One course reinforced concrete, grading and drainage. Lewis-Copeland Construction Co., Lima, Ohio, \$137,659.18.

Lancaster and Chester Counties, R-215, 142, R-142, West Sadsbury and Sadsbury Townships. One course reinforced concrete (dual type), one course reinforced concrete. W. Grant Raub Co., Red Lion, Pa., \$328,820.14.

Residence, Marshall street, West Chester, Pa. Contract awarded McCormick Bros., 17 North Walnut street, West Chester, Pa. Architect, W. J. Corcoran, West Chester, Pa. Owner, Mrs. P. D. Maule, West Chester, Pa. Hollow tile, stucco, 2½ stories, 28x38 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work.

Gardener's Cottage (alt. and add.), Ardmore, Pa. Contract awarded Metzger & Co., Otis Building, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, A. Atwater Kent, care Atwater Kent Mfg. Co., Wissahickon and Abbot'sford roads, Philadelphia. Hollow tile, stucco, 1½ stories and basement, 20x31 feet; 2½ stories and basement, 30x36 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, bond, ornamental iron work.

New Jersey Construction News

War Memorial, Trenton, N. J. Plans in progress. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, War Memorial Committee, care of Mayor L. W. Donnelly, Municipal Building, Trenton, N. J. Limestone, 2 stories.

Hospital, \$1,000,000. Spring Lake, N. J. Plans in progress. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Ann May Hospital Association, Dr. J. F. Ackerman, President, Spring Lake, N. J. Brick, steel, concrete.

Hotel, location withheld. Plans in progress. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. Fireproof, 8 stories, 42x160 feet, concrete roof, hardwood floors, elevators, roof ventilators, dampproofing, fire doors, tile, marble, metal lath, steam heat, electric light.

Warehouse, Atlantic City, N. J. Plans in progress. Architect, A. L. Brooks, Humphrey Building, Atlantic City, N. J. Owner, M. Gettleman, 1635 Boardwalk, Atlantic City, N. J. Brick, 2 stories, 88x20 feet, slag roof, pine floors, electric light, skylights, waterproofing and dampproofing.

Residences (26), Sayres and Morris streets, Camden, N. J. Plans in progress. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Jerald Brindisi, care of architect. Brick, frame, 2 stories, 18x30 feet, slag roof, pine floors, hot water heat, electric light.

Store and Apartment, 524 Kaighn avenue, Camden, N. J. Plans in progress. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Morris Birrer, Long Branch, care of architect. Brick face, concrete block, 2 stories, 20x60 feet, slag roof, oak and maple floors, hot water heat, electric light, tile, metal ceilings, plate glass.

Chapel, Pleasantville, N. J. Owners taking sub-bids. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owners, Rodel Shalem Congregation, Mr. Reich, Secretary, Washington avenue, Pleasantville, N. J. Limestone, 1 story, 30x80 feet, slag roof, pine floors, tile work, electric light.

Service Station, White Horse pike and Cuthbert road, Audubon, N. J. Lessee will build. Owner, Charles Kahn, Seventeenth and Chestnut streets, Philadelphia. Lessees, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Hollow tile, stucco, 1 story, area of plot 75x100 feet, tile roof, cement.

School, West Atlantic City, N. J. Owners will be ready for bids at end of week. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owners, Board of Education of Egg Harbor Township, James Brown, Secretary, McKee City, N. J. Brick, 1 story, 70x40 feet, slag roof, pine floors, roof ventilators, waterproofing, vapor heat, electric light, metal lath.

Hotel, South Carolina avenue near Beach, Atlantic City, N. J. Architect will be ready for bids at end of week. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Dr. R. B. Ludy, care of architect. Fireproof, brick, steel, 15 stories, 82x140 feet, concrete and maple floors, hollow tile, safety treads, roof ventilators, waterproofing, dampproofing, cast stone, bronze work, iron stairs, fire doors, tile, marble, electric light.

Apartment, Raleigh avenue, Atlantic City, N. J. Plans in progress. Owners will take sub-bids. Architect, Benjamin Brown, Guarantee Trust Building, Atlantic City, N. J. Owners, H. V. Realty Co., 37 South Iowa avenue, Atlantic City, N. J. Fireproof, 10 stories, 76x78 feet, slag roof, maple floors, tile, marble, electric light, maple floors.

Borough Hall (alts.), Pennington, N. J. All bids rejected. Will take revised bids. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owners, Borough of Pennington, care of architect. Stucco, 2½ stories, 36x78 feet, slate roof, hardwood and composition floors, electric light, general alterations.

Club House, \$800,000. Cooper Baird Bridge Boulevard, Camden, N. J. Architects will be ready for bids in 10 days. Architects, Lackey & Hettel, 544 Federal street, Camden, and Paul Cret, Otis Building, Philadelphia. Owners,

City Athletic Club of Camden, N. J., Wilson Building, Camden; Patrick H. Harding, President, 621 Cooper street, Camden, N. J.; John B. Kater, Treasurer, Wilson Building, Camden, N. J.; Charles W. Russ, Chairman, Building Committee, care of Armstrong Cork Co., Camden, N. J. Brick, steel, concrete, 10 stories, 450x114 feet.

Apartment House, \$95,000. 304-06 Cooper street, Camden, N. J. Evans-Falcone Co., 1420 Walnut street, Philadelphia, taking sub-bids. Architect, Roy G. Pratt, 1420 Walnut street, Philadelphia. Owners, Syndicate, care of architect. Brick, concrete, 5 stories, stone masonry, excavation, brick work, concrete, structural steel, miscellaneous iron work, mill work, hardwood floors, tile work, stucco, cast stone, hollow metal windows, kalamein doors, plumbing, heating, electric work.

Apartment House, Merchantville, N. J. Thomas C. Tolbert, 5709 Westfield avenue, Camden, N. J., taking sub-bids. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, John Bermes, care of architect. Brick, steel, cut stone, 3 stories, 50x63 feet, Carey roof, hardwood, tile and linoleum floors, vapor heat, oil burner, electric work, incinerators.

Hangar, Newark Airport, Newark, N. J. Owners ready for bids. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Bachelor Officers' Quarters (4-Family Apartment House), Fort Monmouth, N. J. Owners taking bids due July 24th. Private plans. Owners, Office of the Constructing Quartermaster, Washington, D. C. 2½ stories and basement, 170x60 feet, 100x28 feet, 2½ stories and basement, slate roof, oak and pine floors, steam heat, electric light, metal lath, tile.

Hotel, Park Place, Atlantic City, N. J. Architects taking bids due July 23rd. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owners, Sealands Corporations, care of architects. Limestone, brick, steel, concrete, fireproof, 24 stories, 138x200 feet, steam heat, electric light, tile and marble work, elevators.

Apartment House, New Brunswick, N. J. Architect taking bids due July 25th. Architect, Alexander Merchant, New Brunswick, N. J. Owner, Louis Walker, New Brunswick, N. J. Brick, steel, limestone, 10 stories and basement, 77x85 feet, slag roof, oak, pine and cement floors (plumbing, heating, electric reserved), metal lath, tile work, bond, ornamental iron work.

Church, Medford, N. J. Architect revising specifications. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owners, Medford Church, Medford, N. J. Demolition, excavation, cement work, alternate for slag block instead of cement foundations, brick chimney, structural steel, carpentry and mill work, roofing, plastering, hardware, painting, glazing, cement floors, pipe railing.

Road Work, New Jersey. Owners taking bids due July 22nd at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Route 42, Sec. 1 and 2, Williamstown to Atlantic County Line, Gloucester, N. J. Unclassified excavation, concrete pavement, gravel shoulders. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners taking bids due July 29th at noon (Daylight Saving Time). Owners, State Highway Commission,

A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Bridges, Route 34, Sec. 1, Matawan to Holmdel, one over Gravelly Brook and one over Willow Brook, Monmouth County. Excavation, concrete, reinforced steel, structural steel.

Bridges, Route 47, Sec. 3, over Tuckahoe River, (1) at Hunter's Mills and (1) at Head of River, Atlantic, Cape May and Cumberland Counties. Excavation, concrete, reinforced steel, structural steel, piles. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Low bidders. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 29, Section 8, Chimney Rock to Washington avenue, Somerset County. Edward H. Ellis, Westmont, N. J., \$376,999.80.

Route 29, Section 7, (5) bridges between Raritan and Chimney Rock. Richards & Jaspson, Somerville, N. J., \$94,688.65.

Irving Grade School (alts. and add.), Irving and Nixon avenues, Bridgeton, N. J. Owners taking bids due July 24th. Architects, Edwards & Green, 548 Federal street, Camden, N. J.; Walter L. Custer, Bridgeton, N. J. Owner, Board of Education, H. Royden Rice, Secretary, City Hall, Bridgeton, N. J. Reinforced concrete, brick, lime stone, steel 2 stories and basement, 49x35 feet, slate roof, cement and pine floors, metal lath, metal weatherstrip, waterproofing, dampproofing, cast stone, iron stairs, ornamental iron work, metal ceilings, caulking, carpentry and mill work, kalamein doors, metal toilet partitions, iron work, bond, excavation, hardware (plumbing, heating, electric separate). Deposit \$15 refunded; certified check or bid bond.

Vine Street Grade School (alts. and add.), Vine street near Atlantic street, Bridgeton, N. J. Owner taking bids due July 24th. Architect, Edwards & Green, 548 Federal street, Camden, N. J.; Walter L. Custer, Bridgeton, N. J. Owner, Board of Education, H. Royden Rice, Secretary, City Hall, Bridgeton, N. J. Brick, steel, 2 stories and basement, 23x34 feet, 22x29 feet, slate roof, cement and pine floors, metal weatherstrip, waterproofing and dampproofing, metal lath, iron stairs, ornamental iron work, metal ceilings, caulking, carpentry, mill work, kalamein doors, iron work, bond, metal toilet partitions, excavation, hardware (plumbing, heating, electric, separate bids). Deposit \$15 refunded; certified check or bid bond.

New Jersey Contracts Awarded

Offices and Apartment, 4600 Westfield avenue, Pensauken, N. J. Contract awarded Thomas C. Tolbert, 5709 Westfield avenue, Camden, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owner, David R. Rose, 25 North Third street, Camden, N. J. Brick, stone, 2 stories, 22x54 feet, slag roof, hardwood floors, steam heat, oil burner, electric light, tile, marble, soundproofing, cast stone.

Building (alts.), Mt. Holly, N. J. Contract awarded Roscoe C. Gale, Mt. Holly, N. J. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owner, Mt. Holly Herald, Mt. Holly, N. J. Brick front, demolition, excavation, cement work, cast stone, structural steel, carpentry and mill work, iron work, painting, glazing, hardware, plastering, Celadon Treadlite tile, roof repairs.

School (alts.), Pennington, N. J. Contract awarded Charles W. Clemens, Inc., 1119 North Sixty-fifth street, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Pennington School, Pennington, N. J. Brick work, carpentry and mill work, concrete and cement work, cut stone, demolition, excavation, hardware, steam heat, ornamental iron work, slate and tin roof, painting, glazing, iron, steel, sheet metal work.

Building, 326-28-30 Berkley street, Camden, N. J. Contract awarded Harry Brightley, 1216 North Thirty-fourth street, Camden, N. J. Owner, James Hulton, 324 Berkley street, Camden, N. J. Brick, 1 story, 60x100 feet, slag roof, electric light. \$7,000.

Sewage Disposal Systems (4). Contracts awarded to Chandler & Starr, 119 North Fourth street, Camden, N. J. 1—for Piteairn Aircraft Co., at Hollowell, Pa. 1—for Walker Brothers, at Conshohocken, Pa. 1—for Piteairn Aircraft Co., at Bryn Athyn, Pa. 1—Camden County Commissioners, at Berlin, N. J. Concrete work.

Miscellaneous Construction News

Stables, Concord, N. H. Preliminary plans in progress. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, St. Paul's School, Concord, N. H. Brick, stone. Details undecided.

Administration Building, Wellesley, Mass. Plans in progress. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Wellesley College, Wellesley, Mass. Details undecided.

Road Work, Delaware. Low bidders. Owners, State Highway Department, Dover, Del.

Contract 131, East State street, Delmar, .51 mile. Highway Engineering & Construction Co., Selbyville, Del. Metal joint, \$12,677.50; non-metal joint, \$12,517.

Contract 132, Bethany Beach Camp Road Widening. Walter Roach, Georgetown, Del. Stone concrete, \$4,380. Slag concrete, \$4,342.50.

Miscellaneous Contracts Awarded

Residence and Garage, Westover Hills, Wilmington, Del. Contract awarded Harry S. Lynch Co., Wilmington, Del. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Walter B. Banker, Wilmington, Del. Stone, 2½ stories and basement, 120x30 feet, irregular, slate roof.

GRADE-MARKING AS THE PRODUCER SEES IT

(Address by J. F. CARTER, Trade Promotion Manager, Southern Pine Association at Convention of National Association of Purchasing Agents at Buffalo, N. Y., June 3, 1929)

The practice of marking lumber so that the buyer might be at all times protected has been in vogue in the European countries for more than one hundred years.

It is not possible to obtain exact information as to any opposition which certain factors in the lumber business may have placed against the grade-marking of lumber more than a century ago, but there has been in these United States of America during the past five years a very determined opposition to the practice of the official marking of grades upon lumber, though it must not go without saying that many endorsements, even by those who oppose the practice, have been given to the principle of grade-marking.

The grade-marking of lumber is nothing more nor less than the stamping upon the end of the stick an insignia which explains to the buyer the grade into which each stick falls. A mere trade-mark of a lumber manufacturer is not sufficient,

as it affords no assurance to the buyer that he is getting the grade he is paying for.

In speaking to you today, believing that you have already been acquainted with the methods used in grade-marking, it shall be my endeavor to place before you for your consideration the answers to as many of the objections as have come to my attention.

The purchasing agent is either the customer of a retailer of lumber or of the sawmill through a middle man. Very few purchasing agents know the grades of lumber. Very few of them know the qualities of lumber. Grade and quality are not the same. The two words mean different things. Do not be confused. It is a wonderfully easy thing for one of persuasive tongue to so handle English words as to confound and confuse.

Lumber cannot be analyzed. It is not a homogeneous mass which has been put together by any formula of man. It is a product of the tree which suffers or enjoys climatic conditions, sunlight, and the competition for these things with its competitor trees. No experienced mill can saw a tree into what he wishes as to quality or grade. Rather must he be wise enough in the vast lore of sawmill experience to so cut the log that those things are produced which will enjoy particular characteristics.

There are many two-by-fours produced from trees which should not have been cut for twenty years more, and there are many two-by-fours produced which should have been cut into boards. But not by the experienced sawmill man. To him, that would be a breach of the training which years of honorable manufacturing have given to him.

Since lumber is not a homogeneous mass, since it cannot be analyzed, since percentage of summerwood, closeness of grain, angle of grain to the edge, size of knots and placement of knots, checks and cracks and waney edges, as well as mis-manufacture through the machines all have their direct bearing on the grade into which a piece of lumber shall be classed, it becomes necessary to have expert men divide lumber into the various grades which have been established. Not all men who have spent years about a sawmill can be graders. There is a knack to grading which not everyone can easily acquire.

Do you realize that the official grade rules of lumber associations allow a five percent. leeway to compensate for the difference in the opinions of grading experts?

If expert graders are admittedly as far apart as five percent. from each other, is it not reasonable to expect that those who do not know lumber can be easily fooled?

When a purchasing agent sends out his



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inquiry on a bill of lumber he mentions the length, breadth and thickness, whether rough or dressed, and names the grade. It may be the grade which is suitable, and it may not. But the purchasing agent names the grade. When this inquiry reaches the sawmill a quotation is made on the grade which has been named. Somewhere between the lumber manufacturer and the purchasing agent there is often a man who realizes that the purchasing agent either has not chosen the proper grade, or does not have a means for inspecting grades. Thus it is easily possible for the middle man to quote slightly lower than for the proper grade, but higher than for the next lower grade, making a better profit thereby and assuring himself the order.

That is called substitution of grades. It is not an uncommon practice. There are scores of cases which have been seen by myself and by others with whom I work. Requirement of the grade-mark by the purchasing agent will check this substitution of grades if only the purchasing agent will refuse to accept anything else.

A very strong point has been made, and continues to be made, that grade-marked lumber will cost more than lumber which is not grade-marked. The lumber manufacturer replies to that statement in two ways. One is to say that you do not pay any additional price because lumber is grade-marked. If it happens that the lumber for which you pay a higher price is grade-marked, the higher price is caused by better quality of the lumber, and if it were not grade-marked you would have to pay the same additional price. We lay stress on the confusion which is caused by the use of the word "grade" instead of the word "quality."

The second answer the manufacturer makes is this: There is a very strong probability that many who buy lumber can actually save money by requiring that it be grade-marked. In order that you may understand this statement and interpret it correctly, permit me to illustrate:

There are furniture manufacturers

whose purchasing agents are buying No. 2 Common Southern Pine for crating. They are buying through certain middlemen because they enjoy lower quotations from such particular middlemen. Now, it must not be expected that such middlemen can make a profit and yet quote a lower price than the producer. So, there must exist a difference in the grade. If such furniture manufacturers will require and purchase the next lower grade-marked, they will get a lower price and will get the same grade they are now getting. The point to this is that they are paying too much for the lumber they are buying. Since the next lower grade is really the one they are getting, and it is satisfactory, why pay so much for it just because they are fooled into thinking they are getting a higher grade? Why not buy that lower grade, require that it be grade-marked, and pay less money? Think it over. Learn what grade you are getting, purely aside from what you think you are getting and ascertain whether it is satisfactory. If satisfactory, and if of a lower grade than you have thought you were getting, just require that lower grade, and that it be grade-marked. Your employer will appreciate your ability.

About a year ago we called on purchasing agents in the anthracite field of eastern Pennsylvania to learn they were buying on price. The engineers asked for a particular grade; the purchasing agents issued inquiries for that grade; from one group of men came bids as low as \$46.00 per thousand feet while from mills in the South came bids on the same inquiry as high as \$78.00. The purchasing agents thought it queer, but bought at the lower price—and we found he was getting the third grade below the one he had ordered. Isn't it rather peculiar that a sawmill man will make a price of \$78.00 on an inquiry and the same sawmill supply some wholesaler or retailer so that he can sell for \$46.00? Yet that is what was happening. The purchasing agent thought the sawmills would not sell them direct. That was not the trouble at all. The trouble was very clearly this, as definitely proven in

several instances—that the middleman was ordering from a sawmill the third grade lower, and delivering it to the purchasing agent's industry.

We explained these facts to the engineers and purchasing agents. Higher price? Of course they had to pay a higher price for a higher grade—no low grade item of any sort sells for as high a price as the high grade of that item, whether it be lumber or cabbages. Did the engineers actually need the higher grade for which they were asking? They did. Those engineers knew what they wished, and were vainly trying to get it. But the purchasing departments were buying on price, which forestalled the engineers from getting the thing desired.

What is this difference between \$46.00 and \$78.00 which was asked for two vastly different grades? It was a premium on an insurance policy. That is what grade-marking means to you as purchasing agents—it is an insurance policy. In the case of the anthracite purchasing agents it is an insurance policy against the losses of lives and limbs of workmen and the losses of production caused by failures of poor quality timber as mine shaft guides and in breaker houses. It is an insurance policy covering replacements and the loss of time in repairs. The premium is small, for it is not an annual payment—it is a one-time premium covering a period of perhaps twenty-five years. May I ask if the purchasing agents in the anthracite field are better purchasing agents for their employers when they are demanding the right grades, plainly marked on the timbers and paying higher prices for the right grades? Not one of them is a spendthrift. They are thoughtful buyers. They know they are making money for their employers by such discreet buying. Their positions are more secure—they are better able to justify their work.

Grade-marking of lumber is an insurance policy for the lumber buyer who needs only the material for crates. Out in the furniture manufacturing section of Michigan there is much crate material

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used. Most of those purchasing agents are ordering No. 2 Common Southern Yellow Pine, buying their requirements entirely on a price basis. Are they getting No. 2 Common by this method? We think they are not. I have seen stacks of that crate material of a No. 3 Common grade. But, please notice this: the No. 3 Common grade serves the purpose. Why do not these buyers purchase No. 3 Common and require that it be grade-marked? They would get a lower price than they get today, since grade-marked No. 3 Common brings a lower price than the material they now buy. They could save money for their employers by requiring that the grade be No. 3 and that it be so grade-marked. On the other hand, if the grade they now get is not satisfactory, they should actually get a No. 2 Common grade by requiring that it be grade-marked. They are either losing cash money or they are getting a grade that is too low, which is the exact equivalent. Grade-marking is an insurance policy for them. They should require it.

When a sawmill in the South becomes a subscriber to the services of the Southern Pine Association an official inspector calls at that mill to check the graders of lumber. Not infrequently the grades are from 15 to 18 percent. below perfect. That is not permissible in the Southern Pine Association. The rules of that Association are that a mill must not show a deviation of more than five percent., this to cover the differences in men's opinion of grades. Shortly after such mill becomes a subscriber to the Southern Pine Association the official inspector finds the grading is far better, and in that short while the mill grade climbs from 85 percent. to the required 95 percent., and better. That is what policing does. That is what we mean when we say that grade-marking preserves the integrity of the grades. The wholesaler or retailer of lumber, or anyone else who attempts to befog the issue by saying grades are just as good when coming from non-Association mills as from Association mills, are flying squarely into the face of the official mill inspection reports stretching back over a long period of years. Those official inspections are a matter of record in our office at New Orleans, and reports may be obtained by the use of a two-cent stamp.

Any association of lumber manufacturers which operates an efficient inspection department is easily able to answer whether as good grades are obtained in a shipment from non-grade-marking mills as from grade-marking mills. Let me quote figures from the inspection department of the Southern Pine Association covering the first four months of 1929, this report having to do only with claims against shippers of lumber because their lumber was off-grade. It is shown quite

clearly that subscriber mills to the Southern Pine Association in 156 claim inspections were 9.6 per cent. below grade, while 177 claim inspections for mills which are not subscribers to the Southern Pine Association showed 21.86 percent. below grade. This great difference between 9.6 percent. and 21.86 percent is the reason why purchasing agents should require the grade-mark.

One particular instance of lumber being tremendously off-grade, even though it was grade-marked, may be mentioned by some one to you today. We are cognizant of all the facts and are prepared to place the facts before you in the event that case be mentioned as an argument against grade-making. I have brought along a full report on that transaction. It is a mill in Mississippi and the case is one of the most glaring attempts on the part of a lumber-selling force to discredit grade-marking and at the same time is one of the most glaring illustrations of the practice of substitution of grades. It is a case which should be placed in the hands of the purchasing agent who is permitting one of the most violent substitutions of lumber grades to take place. It is hurtful both to purchasing agents and to himself. It has to do with a railroad purchasing agent and a direct substitution of No. 2 Common and No. 3 Common Decking to fill an order for No. 1 Common, purchased on price alone, and is not a secret. There are a dozen shipping clerks and sales managers in the South who know the facts about substitution to the particular railroad.

It has been said that a large buyer of lumber is not so much interested in grade-marking because he has a qualified inspector, the expense being justified by the volume of his buying and he feels competent to protect his own interests. I daresay we shall all agree that the purchasing agent who handles but little lumber should be protected, and that the grade-mark is the protection. But let us refer to the statement about the large buyer.

In order that this statement be properly met, in order that the large lumber purchasing agent be acquainted with the need of the grade-mark for his protection, permit me to revert to our statistics as regards grading at the mills.

Our records show, as I have remarked, that when a mill subscribes to our Southern Pine Association a special inspection report is made on the grading by that mill's lumber graders. Before the mill becomes affiliated with the Association and has its grading checked and policed by Association inspectors, we find it as far as 15 per cent. below grade. After checking by Association inspectors we find the grading is up to the required 95 percent., and even better. Is it to be expected by your large lumber purchaser that his in-

spector will be any better than, or nearly so good as, the inspector at the mills? Yet, when not being checked by trained Association inspectors, this mill inspector is as far as 15 percent. off-grade. It appears the large lumber buyer needs the grade-mark.

Today when you are buying one species of lumber the grade-mark means more than merely the natural defects which occur in wood. The Southern Pine Association, after two years of considerate study of the subject of moisture content, has written into its grade rules such specific provisions covering moisture content that the grade-mark is now a guaranty of the amount of water in the lumber you buy.

The difference in strength between green lumber and dry lumber is as one is to two, meaning that dry lumber is almost twice as strong as green lumber. Whether you are buying lumber for use in a residence, a warehouse, for use about a manufacturing plant or for crating material, the dryness of the lumber is an important factor as to strength, nail holding ability, ability to hold screws, and continuance of the wood to stay in the same place. Quite true, only one species of lumber, Southern Yellow Pine, is today guaranteeing a moisture content under its grade rules, and is the only one in which the grade-mark gives you a guaranty of the amount of moisture present. This is an indication to you of the value of the grade-mark. It is worth your serious consideration.

Lumber is a highly competitive material. There are thousands of sawmills of all sizes. Some of them produce high quality lumber, some very poor quality and some are in the great middle class, too good to be poor and too poor to be good. Grade-marking as a practice on the part of the better mills cannot raise the price within itself. It is a poor observer of economies who will accuse the lumber manufacturers of any such motive. But, as a general rule, and one which can quite readily be recognized, the grade-marking mill gets a better price for its lumber because it produces better lumber, takes more care in the manufacture, chooses the trees to be cut and the kind of cuttings which shall be made, invests money to carry heavy stocks to meet the customer's requirements, dries its lumber more carefully, and loads it in clean cars, using every means for the protection of its lumber from the mill to the retail yard or the industrial user.

(Continued Next Week)

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

Reference Directory for Architects, Builders and Owners

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Metalweld, Inc. 26th and Hunting Park Ave., Phila.

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Mitchell Bros. 2125 Race St., Phila.

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Massiah, Frederick Juniper and Cypress Sts., Phila.

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July 24, 1929

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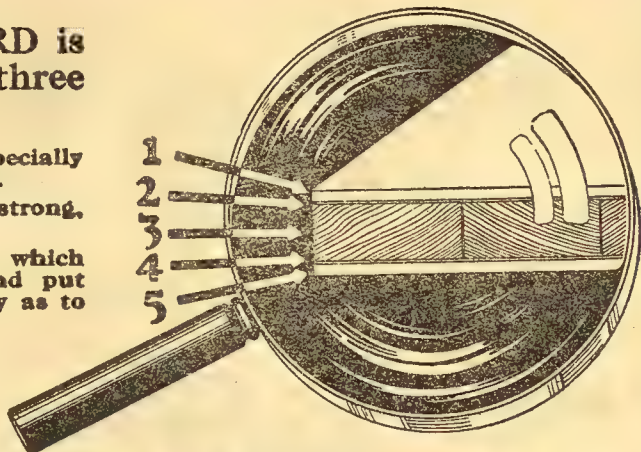
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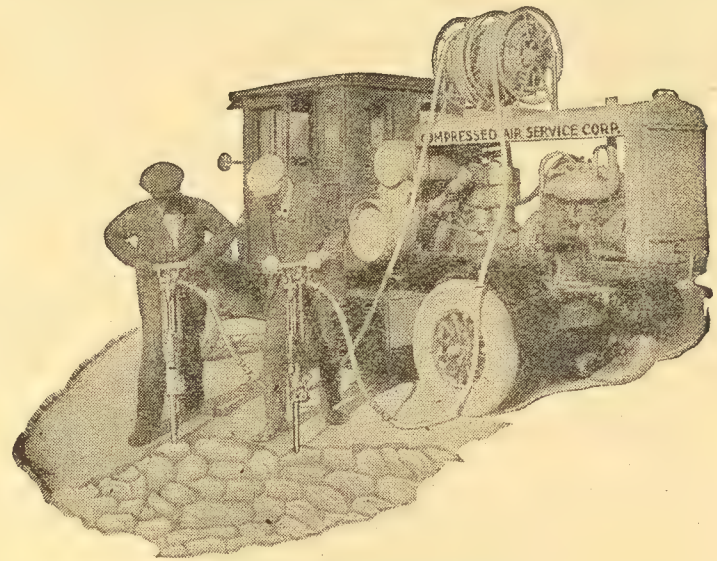
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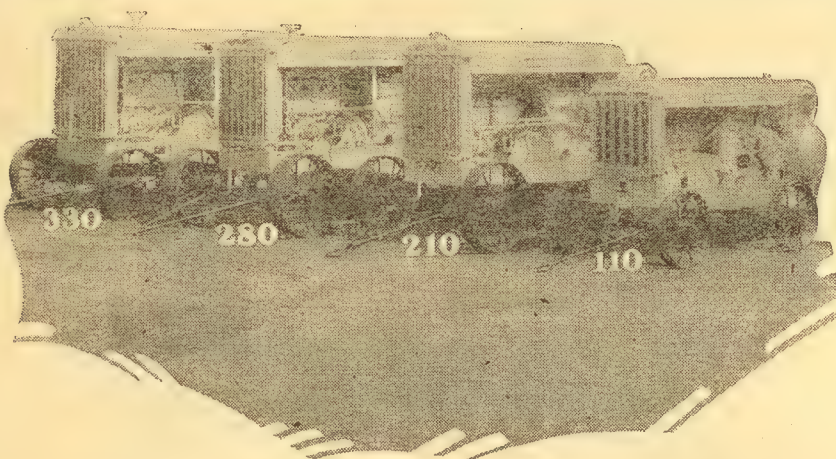
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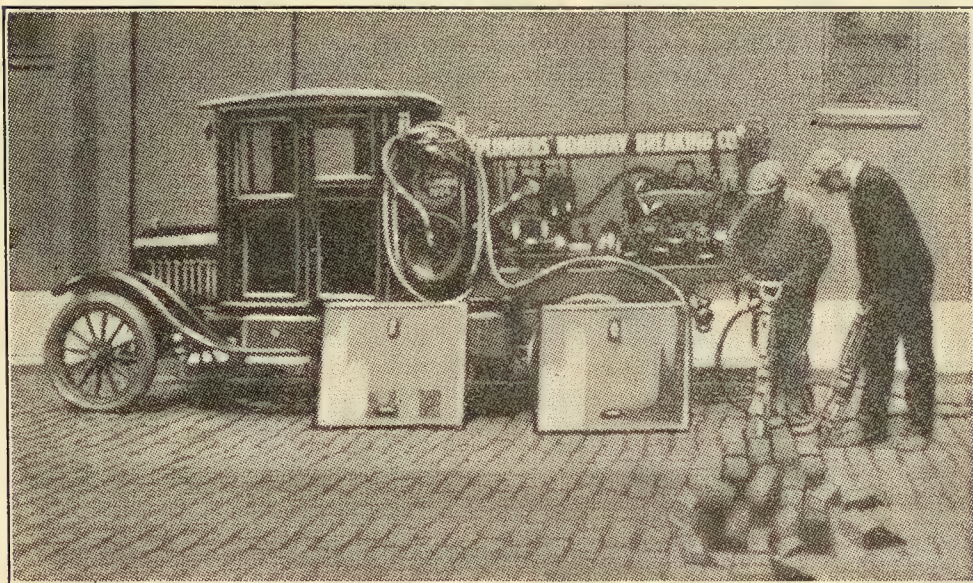
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VOLUME XLIV

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Bank and Office Building, Broad, Cambria and Glenwood Avenue, Philadelphia. Plans in progress. Architect, Philip S. Tyro, 114 South 15th Street, Philadelphia. Owner, J. J. Greenberg, Fidelity Trust Building, Philadelphia. Brick, steel, stone, concrete, six stories, 185x235 feet, irregular.

Laundry Building (alts. and mechanical equipment), 48th and Locust Streets, Philadelphia. Plans in progress, ready for bids in one month. Consulting Engineers, H. J. Levinson, 1621 Sansom Street, Philadelphia. Owner, Charles Kendrick, care of Quaker City Laundry, on premises. Boiler, generator, engine, hot water heat, steel stacks, pumps, water softener.

Department of Supplies, 302 City Hall Annex, Philadelphia. Owners taking bids, due July 30th 11 A. M. S. T., 305 City Hall Annex. Steel castings, steel lockers, carpet linoleum, skid chains, concrete benches, kitchen ware. Certified check 5%.

Recreation Building and 7 Stores, southwest corner of Tulpehocken and Germantown Avenue, Philadelphia. Plans in progress. Architect, Arnold Mueller, 901 Walnut Street, Philadelphia. Owner's name withheld. Brick, steel, cast stone, two stories, 110x150 feet.

New Hospital Building or Add. to Present Wing, Southeast Corner Fifteenth and Mifflin streets, Philadelphia. Work contemplated. Owners, St. Agnes' Hospital, Sister M. Illuminata, Superintendent, on premises.

Embankment, West of Schuylkill, South of Passyunk avenue, Philadelphia. Work contemplated. Owners, Atlantic Refining Co., 260

South Broad street, Philadelphia. Rubble and broken brick.

Art Theatre (seating capacity 750), 251 South Eighteenth street, Philadelphia. Work contemplated. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Philadelphia Art Alliance Co., Col. S. Price Wetherill, Jr., on premises. Note architects.)

Sales and Service Building, Twenty-first and Waverly streets, Philadelphia. Preliminary plans in progress. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owner, name withheld. 2 stories.

Stores (3), Apartments (6), Fox Chase, Philadelphia. Preliminary sketches being prepared. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, name withheld. Stone, brick, 3 stories, 54x70 feet, slag roof, hardwood floors, plate glass, tile work, hot water heat, metal bulks.

Oil Storage and Shipping Terminal, Schuylkill River and Pennypacker Creek, Philadelphia. Preliminary plans in progress. Owners, Standard Oil Company of Pennsylvania, A. F. Holler, Public Ledger Building, Philadelphia. Tract of 43 acres.

Store Building, Northwest Corner Fifty-second and Chestnut streets, Philadelphia. Preliminary plans in progress. Architect, private plans. Owners, Monarch Realty Co., care of Lionel Friedman, Fifteenth and Locust streets, Philadelphia. Size of lot 48x75 feet, 55x68 feet, irregular. Lessees, McCrory Store, Inc., 1107 Broadway, New York City.

Exchange Building, Frankford avenue and St. Vincent street, Philadelphia. Preliminary

plans in progress. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company, Nineteenth and Arch streets, Philadelphia. Brick, 2 stories.

Italian Mission, Southeast Corner Croskey and Indiana avenue, Philadelphia. Plans in progress. Architect will be ready for bids in 2 weeks. Architect, Edwin A. Yeo, 1520 Locust street, Philadelphia. Owners, Branch of Tioga Presbyterian Church, Rev. R. R. Littell, Sixteenth and Tioga streets, Rev. Cantaffio in charge of Mission. Basement of church, stone, 1 story, 40x70 feet, slag roof, brick, wainscoting, plaster ceiling, vapor heat, electric light.

Manufacturing Building, Wissahickon and Abbottsford road, Philadelphia. Plans completed. Architects ready for bids in a few days. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Atwater Kent Co., on premises. Brick, reinforced concrete, granite, steel, 1 story and basement, 900x500 feet (plumbing, heating, electric and ventilation reserved).

Laundry Building (alts. and add.), Seventieth and Woodland avenue, Philadelphia. Architects taking bids due July 25th. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Vincent's Hospital for Women and Children, Sister Lorretto, on premises. Plumbing, steam heat, electric work, carpentry and mill work, steel sash, brick work, slate roof, cement work, painting, glazing.

School, Green and Cliveden streets, Philadelphia. Architects taking bids due July 30th. Architects, Henry D. Dagit & Son, 1322 Race street, Philadelphia. Owners, St. Madeleine

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Sophia Roman Catholic Church, Rev. M. A. Crane, on premises. Stone, limestone, granite, steel, 2 stories and basement, 160x36 feet, wing 97x61 feet, slate roof, cement and maple floors, hollow tile, plumbing, metal lath, tile, marble and terrazzo work, rolled steel sash, tin-clad doors, bond, ornamental iron work, iron stairs, bronze work, area gratings, roof ventilators, caulking, waterproofing and damp-proofing, flagstone, excavation, concrete and cement work, plaster bond, hardware, alberne stone.

Manufacturing Building (add.), B and East Clearfield streets, Philadelphia. Engineers taking sub-bids. Engineers, William Steele & Son, Fifteenth and Cherry streets, Philadelphia. Owners, Aberle Co., on premises. Brick, steel, 1 story, 130x137 feet, slag roof, cement floors, steam heat, electric light. Contract awarded William Steele & Sons, Fifteenth and Cherry streets, Philadelphia.

Residences (23), East side Sixty-sixth, between Callowhill street and Girard avenue, Philadelphia. Owners ready for sub-bids. Architect, J. E. Sindoni, Norwood and McKean streets, Philadelphia. Owners, Perna & Derita, 6413 Vine street, Philadelphia. Brick, 2 stories, 15x45 feet, slate and slag roof, hardwood floors, cement work, basement garage, hot water heat, electric light, metal lath, tile work.

Apartment House, \$140,000. Southwest Corner Foulkrod and Leiper streets, Philadelphia. Permit issued. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Bender Construction Co., 521 Snyder avenue, Philadelphia. Brick, 4 stories, 110x97 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work.

Apartment House, \$200,000. South side Sprague street, Hortter to Phil-Ellena, Philadelphia. Permit issued. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owners, Kentwell Hall Corporation, 1600 Walnut street, Philadelphia. Brick, 4 stories, 169x76 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work.

Residence, \$15,000. Southwest Corner Warden Drive and Vaux street, Philadelphia. Permit issued. Architect, private plans. Owner, John McClatchey, Land Title Building, Philadelphia. Brick, 2 stories, 20x69 feet, hardwood floors, hot water heat, electric light, tile work.

Garages (6), \$2,400 total. Permit issued. Architect, private plans. Owner, Hyman Korman, Oxford avenue and Levick street, Philadelphia. Brick, 1 story, 10x16 feet, slag roof, cement floors, electric work.

Residences (30), \$180,500. Godfrey avenue, West of Sixth street, Philadelphia. Permit issued. Architect, private plans. Owners, W. Fischer's Sons, Oak Lane Trust Building, Philadelphia. Brick, 2 stories, 16x45 feet,

12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (44), \$135,000. East side Third street, North of Cora street, Philadelphia. Permit issued. Architect, private plans. Owner, Louis Braeunig, Jr., 5126 North Fifth street, Philadelphia. Brick, 2 stories, 15x41 feet, 12x14 feet, slag roof, pine floors, hot water heat, electric light.

Residences (14), \$47,000. East side Eighteenth street, North of Dallas street, Philadelphia. Permit issued. Architect, private plans. Owner, Charles F. Leshner, 6306 Moylan avenue, Philadelphia. Brick, 2 stories, 16x32 feet, hardwood and pine floors, slag roof, hot water heat, electric light.

Office and Storage Building, \$5,500. West side State road, South of Comly street, Philadelphia. Permit issued. Architect, private plans. Owners, Simplex Foundation Co., 5920 State road, Philadelphia. Brick, 1 story, 21x75 feet, slag roof, electric work.

Residence, \$3,000. 210 East Brighthurst street, Philadelphia. Permit issued. Architect, private plans. Owner, Meachle Loccola, on premises. Brick, 2 stories, 20x40 feet, hot water heat, electric light.

Residences and Stores (4), \$32,000 total. South side Olney avenue, West of Lawrence street, Philadelphia. Permit issued. Architect, private plans. Owner, William E. Ferguson, Fourth and City Line, Philadelphia. Brick, 3 stories, 16x26 feet, 13x24 feet, slag roof, hot water heat, electric light.

Residences (2), \$14,000 total. North side Wakeling street, East of Castor road, Philadelphia. Permit issued. Architect, private plans. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 19x47 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residence, \$3,000. 4516 Edgemont street, Philadelphia. Permit issued. Owner, John Guscin, 4335 Belgrade street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, pine floors, hot water heat, electric light.

Residences (20), \$121,800. Magee street, East of Sackett street, Philadelphia. Permit issued. Architect, private plans. Owners, Ideal Homes, Inc., 1518 North Fifth street, Philadelphia. Brick, 2 stories, 16x36 feet, 13x18 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (2), \$28,000. North side Warden Drive, West of Vaux street, Philadelphia. Permit issued. Architect, private plans. Owner, John H. McClatchey, 846 Land Title Building, Philadelphia. Brick, 3 stories, 20x37 feet, 20x17 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Contract No. 179, Broad Street Subway. City Hall Station, Broad Street Subway, Philadelphia. Owners, Department of City Transit, City Hall Annex, Philadelphia. Owners

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Ridge Avenue Tube, Broad and Fairmount avenue to Eighth and Race streets, Philadelphia. Low bidders: Keystone State Corporation, Philadelphia Bank Building, Philadel-

phia, \$4,037,390; Silas Mason Co., 52 Vanderbilt avenue, New York, \$4,264,120. Owners, Department of City Transit, City Hall Annex, Philadelphia. Contract No. 301.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, City Hall Annex. Low bidder: Yetman & Garafola, Real Estate Trust Building, \$118,525. Improving City avenue, Monument road to Bridge over Schuylkill River, improving Neill Drive.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Erie avenue, F to G street, Philadelphia. Contract on excavation awarded to Turner Construction Co., 1700 Walnut street, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, I. Fischman & Son, Tenth and Allegheny avenue, Philadelphia. Brick, limestone, steel, concrete, 1 and 2 stories, 480x375 feet.

Alterations and Addition, Twelfth Floor, Rittenhouse Square, Philadelphia. Contract awarded John B. Kelly, 770 Schuylkill avenue, Philadelphia. Architects, Zantzinger, Borie & Medary, Otis Buildings, Philadelphia. Owners, Penn Athletic Club of Philadelphia, on premises. Metal lath, plastering, electric work, heating, alts. plumbing, gypsum block, tile floors.

Church (alts.), \$5,000. Eleventh and Westmoreland streets, Philadelphia. Contract awarded Central Construction Co., 1625 North Mervine street, Philadelphia, who are taking sub-bids. Architect, private plans. Owners, Gospel Mission Church, on premises. Electric light, plastering, painting, glazing, brick work, plumbing, carpentry and mill work.

Store and Lodge Room, \$16,000. 8046 Frankford avenue, Philadelphia. Contract awarded Caster & Knauer, 8029 Frankford avenue, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owner, Carlotta Taylor, 2126 Land Title Building, Philadelphia. Brick, 3 stories, 40x70 feet, vapor heat, electric light, slag roof, hardwood and pine floors.

Store, \$12,000. 400 West Cheltenham avenue, Philadelphia. Contract awarded C. M. Greenwood, 3701 North Broad street, Philadelphia. Architect, Frank E. Hahn, 629 Chestnut street, Philadelphia. Owner, S. K. Allman, Finance Building, Philadelphia. Brick, 1 story, 50x136 feet, slag roof, electric light.

Apartment House, \$77,000. Southeast Corner Fiftieth and Folsom streets, Philadelphia. Contract awarded Louis Nathaniel, 1708 North Beechwood street, Philadelphia. Architect, H. Homer Jefferson, 4830 Brown street, Philadelphia. Owners, Hamlin & Jefferson, 443 Macon street, Philadelphia. Brick, 2 stories, 52x75 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work.

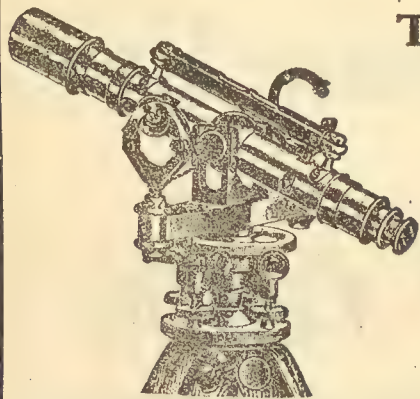
Gas Station, 36-38-40 South Forty-second street, Philadelphia, \$6,000. Contract awarded Charles S. Bannett, 4700 Springfield avenue, Philadelphia. Architect, William Paley, 4700 Springfield avenue, Philadelphia. Owner, Margaret E. Fitzhugh, 4202 Chestnut street, Philadelphia. Brick, stucco, 1 story, 18x30 feet, slag roof, cement floors.

Residence (alts.), \$3,000. Southeast Corner Broad and Colwyn streets, Philadelphia. Contract awarded T. Frank Miller, 1012 Walnut street, Philadelphia. Architect, private plans. Owner, Edward Schliesser, Willow Grove, Pa. General alterations.

Store and Storage Building (alts.), \$2,600. 3701 Woodland avenue, Philadelphia. Contract awarded Smith-Hardican Co., 1809 Callowhill street, Philadelphia. Architect, private plans. Owners, Louis K. Liggett Co., 1210 Market street, Philadelphia. General alterations.

Storage Building, \$6,000. 443-45 North Sixty-second street, Philadelphia. Contract awarded Clinton Erb, 6133 Lansdowne avenue, Philadelphia. Architect, private plans. Owner, W. J. Rainey, on premises. Brick, 1 story, 50x72 feet.

Residence, \$5,300. West side Mechanicsville road, North of Byberry road, Philadelphia. Contract awarded George C. Mather, Langhorne, Pa. Architect, private plans. Owner, Ray Townsend, Mechanicsville, Pa. Frame, 2 stories, 24x26 feet, hardwood and pine floors, hot water heat, electric light.



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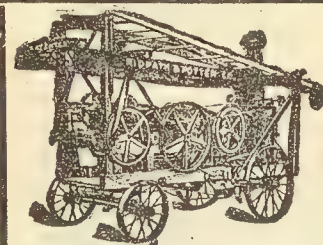
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Bungalow, Stenton avenue, West of Bustleton pike, Philadelphia, \$3,500. Contract awarded M. F. Yeager, Pasterville, Pa. Architect, private plans. Owner, J. Porter Gassan, Somerton, Pa. Frame, 1 story, 24x20 feet, hardwood and pine floors, electric lighting.

Store and Club, \$2,000. 2721-23 Germantown avenue, Philadelphia. Contract awarded Basch & Co., Ruan and Tackawanna streets, Philadelphia. Owners, Philadelphia Quartette Club, 2717 Germantown avenue, Philadelphia. General alterations.

Shop, \$7,000. South side Thompson street, West of Third street, Philadelphia. Contract awarded Philip Haibach Contracting Co., 1261 North Twenty-sixth street, Philadelphia. Owner, Louis Burk, Northwest Corner Third and Girard avenue, Philadelphia. Steel, 1 story, 38x53 feet.

Shop (add.), 4804 North Fifth street, Philadelphia, \$4,300. Contract awarded Goller & Snyder, 1016 West Cambria street, Philadelphia. Architect, Peter F. Getz, Victory Building, Philadelphia. Owner, Charles C. Hempel, on premises. Brick, 1 story add., 16 feet 6 inches x 16 feet.

Service Station, \$10,000. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia. Owners, Station Realty Co., New York, care of builder. Brick, 1 story, 16x16 feet, slag roof, cement floors, electric work.

Service Station, \$2,500. Southeast Corner Corinthian avenue and Poplar street, Philadelphia. Contract awarded A. Raymond Raff Contracting Co., 1635 Thompson street, Philadelphia. Architect, private plans. Owner, Harry Lipschutz, 5340 North Camac street, Philadelphia. Brick, 1 story, 16x19 feet, slag roof, cement floors.

Store (alts.), 1816 South street, Philadelphia. Contract awarded Wolf & Sheffit, 3819 Poplar street, Philadelphia. Architect, private plans. Owner, Joseph Lotman, on premises. General alterations.

Apartment House, \$750,000. 1200 South Fifty-eighth street, Philadelphia. Contract awarded Samuel Silverman, 228 South Fortieth street, Philadelphia. Owners, Park View Co., 228 South Fortieth street, Philadelphia. Brick, 4 stories, 65x121 feet, 121x40 feet, slag roof, hardwood and pine floors, steam heat, electric light, tile work.

Store Building, 115 South 16th St., Philadelphia. Contract awarded to Roberts & Roller, 1700 Walnut Street, Philadelphia. Architect, Lloyd Titus, Brighton Hotel, Atlantic City, N. J. Owner, Walter F. Off, care of Mr. Richards, 115 South 16th Street, Philadelphia. Brick, limestone, steel, two stories and base-

ment, 23x60 feet, slag roof, pine and cement work.

Storage Building, east side of 32nd Street, north of Market Street, Philadelphia, \$200,000. Contract awarded to United Engineers & Contractors, 112 North Broad Street, Philadelphia. Owners, Pennsylvania Railroad Co., 15 North 32nd Street, Philadelphia. Reinforced concrete, three stories, 50x260 feet.

Store Building (alts. and add.), 8511-13-15 Germantown Avenue, Philadelphia. Contract awarded to John Roman, 414 Brighthurst Street, Philadelphia. Architect, John W. Keyes, Otis Building, Philadelphia. Brick, steel, two stories and basement, 54x73 feet, limestone, slag roof, pine and cement floors.

Pennsylvania Construction News

Theatre and Stores, southeast corner of Public and East Market Street, Wilkes-Barre, Pa. Owners will have plans ready for bidders about September 15. Architect, Leon Lempert, Mercantile Building, Rochester, N. Y. Owners, Comerford Amusement Co., G. D. Morris, Superintendent, 207 Wyoming Avenue, Scranton, Pa. Brick, two stories.

School (alts. and add.), Fallsington, Bucks County, Pa. Low bidder: Roy Randall, Jenkintown, Pa., \$32,525; Taggart & Thompson, 2814 North Broad Street, Philadelphia, \$34,572. Plumbing, F. G. Wackenhutt, 2416 Frankford Avenue, \$2,089. Heating, A. Ardrey, Bristol, Pa., \$7,400. Architect, Thomas B. Stockham, Morrisville, Pa. Owners, Board of Education Township of Falls, Bucks County, H. W. Scatterwaite, Fallsington, Pa. Brick, stucco, limestone, steel, two stories and basement, 142x36 feet.

Residence (alts.), Spring City, Pa. Owner will build. Architect, Benj. Rush Stevens, 1827 Arch Street, Philadelphia. Owner, Robert B. Schindler, care of Schuylkill Valley Mills, Spring City, Pa. Interior alterations, new porches.

Store Building (alts.), Pottstown, Pa. Owner will build. Architect, Benj. Rush Stevens, 1828 Arch Street, Philadelphia. Owner, I. Miller, Pottstown, Pa. General alterations.

Hospital (add.) and Barn, Maclay street, Harrisburg, Pa. Architect selected. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Harrisburg State Hospital, Cameron and Maclay streets, Harrisburg, Pa. Too early for details.

School, Halifax, Pa. Architects selected. Ar-

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chitects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owners, Halifax School Board, H. E. Lyler, President, Halifax, Pa.

Residence and Garage, \$75,000. Bryn Mawr avenue, Wynnewood, Pa. Architect selected. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Dr. T. G. Miller, 110 South Twentieth street, Philadelphia. Size of tract, 3 acres.

Building (remodeling) to Market House, West and Florence avenues, near Jenkintown, Pa. Plans in progress. Architect, L. Walton Heiss, Jenkintown, Pa. Owners, Suburban Farms Market, Edward Stapler, President, Jenkintown, Pa. General interior and exterior alterations, stalls, incinerator, cold storage, restaurant facilities, etc.

Residence and Garage, Drexel Park, Pa. Preliminary plans in progress. Architect, Harold Edward Williams, 2265 Garrett road, Philadelphia. Owner, Ridgeway Kennedy, Jr., 328 Owen avenue, Lansdowne, Pa. Brick, 2½ stories.

Store and Apartment, \$25,000. Main street, Souderton, Pa. Plans in progress. Architect, James Rapp, Richlandtown, Bucks County, Pa. Owner, Robert Kline, Souderton, Pa. Brick, steel, cast stone, 2 stories, 20x85 feet.

Church (alts.), Bryn Mawr, Pa. Preliminary plans in progress. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Lower Merion Baptist Church, Dr. G. M. Walker, Pastor, Bryn Mawr, Pa. New stone vestibule, porch, interior alterations.

Bungalows (19), Hallowell, Pa. Plans completed. Architect, John E. Sindoni, Norwood and McKean streets, Philadelphia. Owner, name withheld. Concrete block, stucco; brick, stucco; frame, 1½ stories, (13) 28x36 feet, (6) 28x42 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work, garage, 1 story, 10x18 feet.

Residence, York, Pa. Plans in progress. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, Dr. L. S. Weaver, R. D. 8, York, Pa. Brick, 2½ stories, 45x32 feet, slate roof, hardwood floors, tile work, electric light, steel casement windows.

Apartments (2) (alts. and add.), 152 East Gary street, West Chester, Pa. Revising plans. Architect, William Corcoran, 139 East Biddle street, West Chester, Pa. Owner, Mrs. Lewis Hickman, 18 North Matlock street, West Chester, Pa. Brick, 2 stories, 30x15 feet.

Central Office and Business Building, Ninth and Fayette streets, Conshohocken, Pa. Plans in progress. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Nineteenth and Arch

streets, Philadelphia. Brick, steel, reinforced concrete, 3 stories.

Club (add.), Reading, Pa. Plans in progress. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Wyomissing Club, care of architect. Brick, steel, 3 stories, 40x50 feet, 52x40 feet, slate roof, hardwood floors, electric light.

Residence, Front street, Harrisburg, Pa. Plans in progress. Architects, Minich & Jamison, 23 North Third street, Harrisburg, Pa. Owner, A. Nissley, care of architects. Cinder block, 2½ stories, 60x50 feet, shingle and tile roof, hardwood floors, Warren Webster heat, electric light, tile work, casement windows.

Church and Community Hall (add.), Maple street, Lebanon, Pa. Plans in progress. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owners, Presbyterian Church, care of architects. Frame, 1 story and basement, 30x41 feet, composition shingle roof, pine and maple floors, electric light.

Women's Building, Broad Meadow Farms, Birmingham and Thornbury Townships, Delaware County, Pa. Plans completed. Owners will soon take bids. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, George T. Wades, Media, Pa. Stone, 2 stories and basement, 108x30 feet, wing 56x32 feet.

Liberal Arts Building (add.), State College, Pa. Plans about completed. Architect will be ready for bids in 10 days. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Penn State College, State College, Pa. Brick, steel, concrete, limestone, 3 stories, slag roof, cement work, electric light.

Residence and Garage, Gettysburg, Pa. Architect will be ready for bids in one week. Architect, Edward Leber, 42 West Market street, York, Pa. Owner, Dr. J. McCrea Dickson, 103 West Middle street, Gettysburg, Pa. Stone, 2½ stories, 35x60 feet, 26x28 feet, slate roof, hardwood floors, electric light, tile work, flagstone, brass pipe.

Store (alts.), 1000 West Main street, Norristown, Pa. Owner will build. Architect, E. Lane Crawford, Norristown, Pa. Owner, D. H. White, on premises. Brick, 1 story, general alterations, slag roof, maple work, plate glass, plumbing, steam heat, copper bulks.

High School, \$100,000. Ringtown, Schuylkill County, Pa. Owners will be ready for bids August 1st. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owners, Ringtown School Board, Washburn Snoich, Ringtown, Pa. Fireproof, 2 stories and basement, 135x76 feet, 110x33 feet, slate roof,

maple floors, hollow tile, safety treads, roof ventilators, tile, metal lath (heating, plumbing and electric separate).

Y. M. C. A. (add.), 633 Washington street, Reading, Pa. Architect will be ready for bids August 1st. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Reading Y. M. C. A., care of F. S. Livingwood, on premises. Brick, steel, cinder block, 6 stories and basement, 94x132 feet, slag roof, concrete floors, hollow tile, elevator, roof ventilators, cast stone, dampproofing, architectural terra cotta, kitchen equipment, iron stairs, bond, fire doors, steel sash, tile, marble, metal lath, steam heat, electric light.

Bank (alts. and add.), York, Pa. Architect will be ready for bids first of month. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, York Trust Company, J. Lewis, President, 21 East Market street, York, Pa. Brick, 3 stories, 68x63 feet, terrazzo and linoleum floors, elevators, metal window guards, bronze, ornamental iron, granite, steel skylights, tile, marble, terrazzo, electric light, heating extension.

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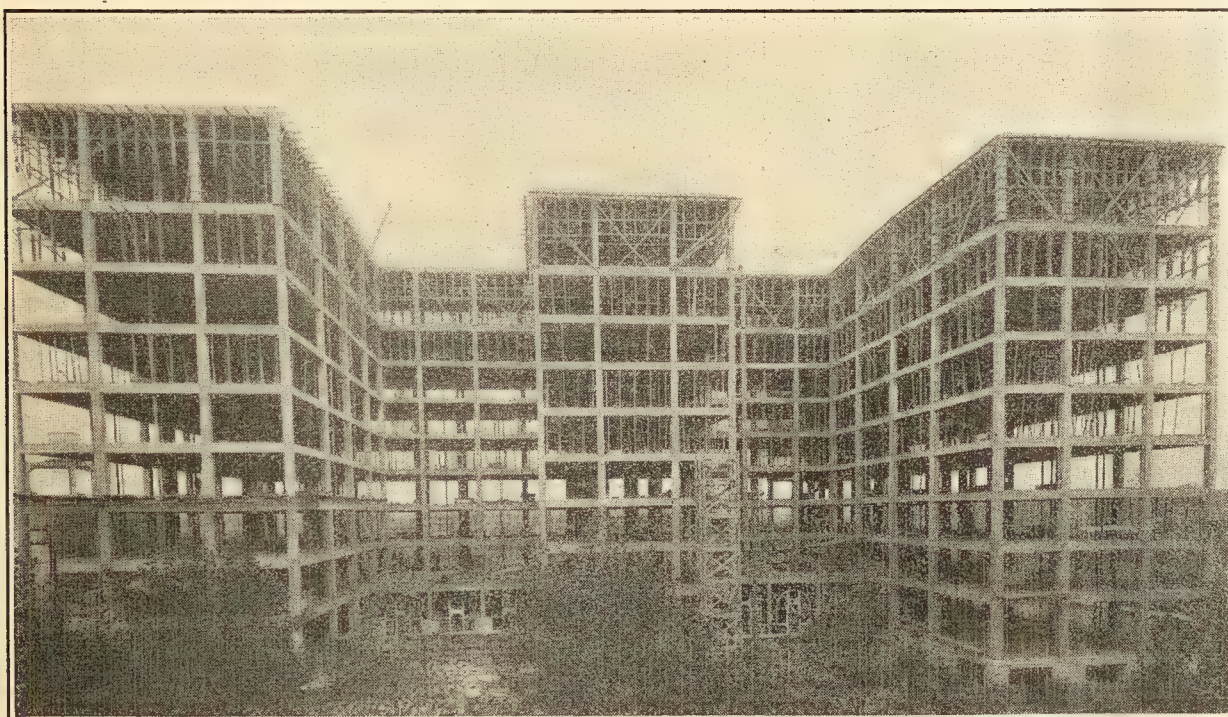
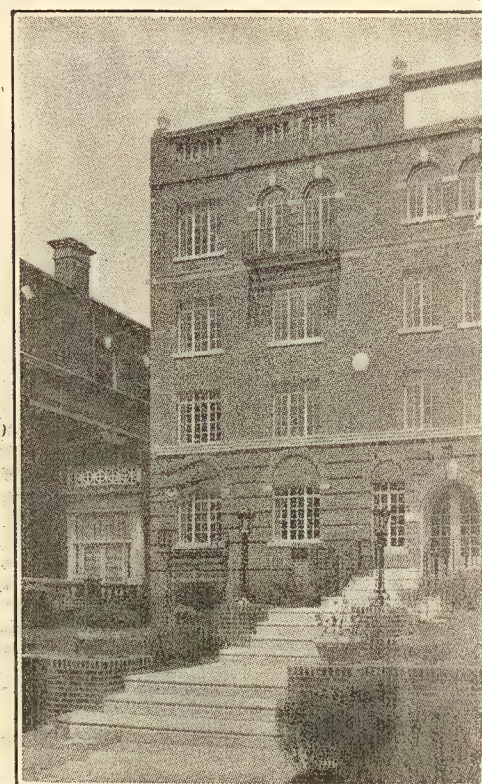
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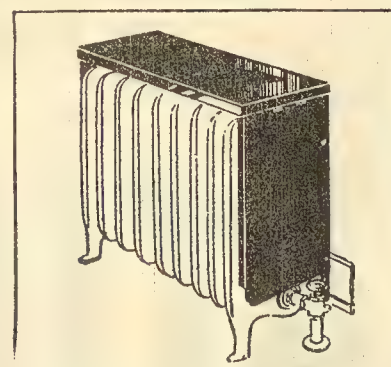
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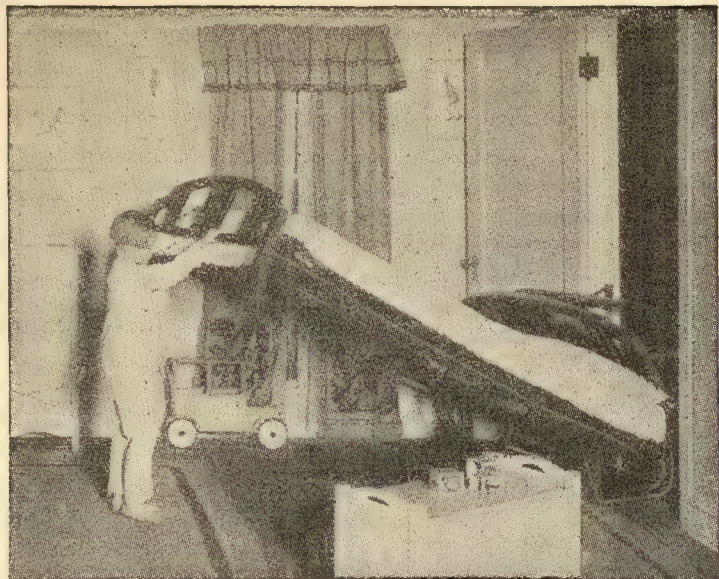
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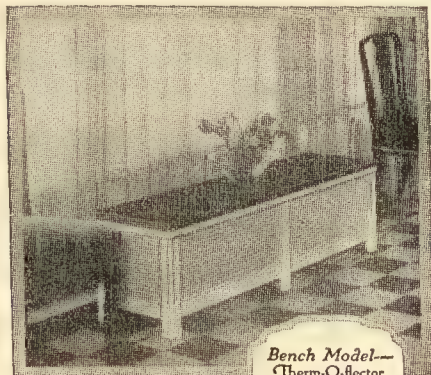
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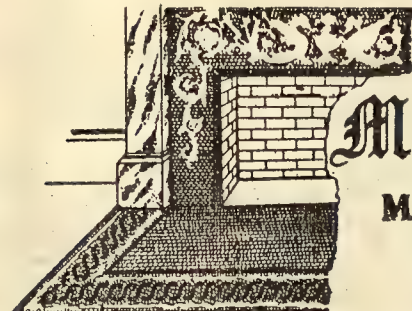
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Residences, 2601-13 North Fourth street, Harrisburg, Pa. Owner will build. Owner, Paul St. Pierre, 216 Graham street, Harrisburg, Pa. Stone and stucco, 2 stories.

Coach and Four Inn (alts. and add.), Coatesville, Pa. Owners taking bids. Architect, Clarence Brazier, Crozer Building, Chester, Pa. Owners, Coach and Four Inn, J. Stewart Huston, Managing Director, Citizens' Hotel Co., Coatesville, Pa. Brick, steel, 4 stories add., 41x75 feet. W. J. Elliott, Coatesville, Pa., will figure.

Sunday School (alts. and add.), Darby, Pa. Ready for bids in a few days. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Mt. Zion Methodist Episcopal Church, Rev. Warren T. Dunkle, 921 Main street, Darby, Pa. Brick, limestone, 2 stories, 55x90 feet, maple floor, kitchen equipment.

School (add.), Johnson avenue, Upper Chichester Township, Pa. Owners taking bids due July 31st, 5 P. M. (Standard Time). Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owners, School District of Upper Chichester Township, M. H. Young, 24 Poulson road, Boothwyn, Pa. General construction, 1 story, 1 room add., heating, ventilating, plumbing, electric, draining. Certified check and bond. Deposit, \$20. Refund, \$15.

Borough Hall (alts. and add. and repairs), Sharon Hill, Pa. Owners taking bids due August 5th, 8 P. M. (Daylight Saving Time). Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Sharon Hill Borough, H. E. Anschutz, Secretary, 107 North Clifton avenue, Sharon Hill, Pa. Deposit, \$10. Refund, \$5. Certified check or bid bond, 5 per cent. Bond.

Residence and Garage, Allentown, Pa. Architects taking bids due July 25th. Architects, Karcher & Smith, 1520 Locust street, Philadelphia. Owner, John Saeger, Allentown, Pa. Stone, 2½ stories, vapor heat, electric light, tile work, slate roof, hardwood floors.

Superstructure, Telephone Building, Southwest Corner Baltimore and Highland avenues, Lansdowne, Pa. Engineers taking bids due July 27th. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Engineers, United Engineers and Constructors, 112 North Broad street, Mr. V. B. Stanbury. Owners, Electric Realty Corporation, care of architects. Reinforced concrete, brick, steel, 2 stories and basement, 103x31 feet, built-up roof, cement floors, hardware, metal weather strip, caulking, fireproofing, waterproofing, metal lath, tile and marble work, floor hardener, iron stairs, ornamental iron work.

School, Mastersonville, Lancaster County, Pa. Owners taking bids due August 2nd. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Ralpho Township School Board, J. W. Moyer, Secretary, R. D. 4, Manheim, Pa. Brick, cinder block, 1 story and basement, 30x83 feet, slag roof, pine floors, roof ventilators (heating, plumbing and electric separate).

Mechanical Building and Administration Building, near Doylestown, Pa. Architects taking bids due July 31st. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, National Farm School, S. B. Samuels, Doylestown, Pa., and J. B. Allman, 1522 Chestnut street, Philadelphia. Brick, 2 stories, 50x100 feet.

Legion Building, Second avenue, Conshohocken, Pa. Owner taking bids due August 1st, 3 P. M. Owners, John F. DeHaven Post, No. 129, American Legion, E. Arnold Forrest, Conshohocken Trust Co., Conshohocken, Pa. Conshohocken stone, 2 stories and basement, 37x26 feet, hardwood and cement floors, dumb waiter, kitchen equipment.

Church, Fullerton, Pa. Architects taking bids due July 29th. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, St. John's Reformed Church, M. Newhead, Fullerton, Pa. Stone, brick, slate roof, maple floors, hot water heat, electric work.

Cottages (2), Buckingham Valley, Pa. Plans in progress. Architect will be ready for general bids August 1st. Architect, A. Oscar Martin, Doylestown, Pa. Owner, name withheld. Concrete block, foundations, frames, 2½ stories, 35x40 feet, shingle roof, pine floors, hot water heat, electric light.

Store, Restaurant and Living Quarters, Clifton Heights, Pa. Plans completed. Architect will be ready for general bids in a few days. Architect, Charles H. Jester, 141 South Fifty-second street, Philadelphia. Owner, Medard Halfpenny, Clifton Heights, Pa. Brick, 2 stories, 40x75 feet, slag roof, pine, oak and linoleum floors, metal ceilings, hot water heat, electric light, tile work, plumbing.

Tuberculosis Hospital, near Markham-Cheyney road, 1 mile from Baltimore pike, Concord Township, Delaware County, Pa. Plans about completed. Owners will soon take bids. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, H. M. Birney, President. Stone, 2, 3, 4 stories, accommodate 100 adults and 50 children.

Residence and Garage, Wallingford, Pa. Owner taking bids due July 29th. Architect,

S. Kendrick Lichty, Secane, Pa. Owner, John P. Rife, Lansdowne, Pa. Stone, frame, 2½ stories and basement, 29x53 feet, wing 26x20 feet, shingle roof, oak, pine and cement floors, hot water heat, electric light, metal lath, tile and marble work, rolled steel sash, excavation, flagstone, concrete block, linoleum, iron and steel, plumbing, hardware.

School, Pocono Lake, Monroe County, Pa. Owners taking bids due August 1st. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Tobyhanna Township, care of Daniel F. Stearner, Blakely, Pa.

Bakery Building, Union Boulevard, Allentown, Pa. Architect will be ready for bids in about four or six weeks. Architect and engineer, C. B. Comstock, 122 East Forty-second street, New York. Owners, General Baking Co., Leslie Lowes, President, 420 Lexington avenue, New York. Too early for details.

Farm Show Building, Eleventh and Maclay streets, Harrisburg, Pa. Owners taking bids due August 17th. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, State of Pennsylvania, Frank St. Clair, Bureau of Engineering, Department of Property and Supplies, Harrisburg, Pa. Fireproof, 1 and 2 stories, 700x850 feet, composition and copper roof, concrete floors, hollow tile, roof ventilators, skylights, fire doors.

Church and Sunday School, Bangor, Pa. Architect taking bids due August 2nd at noon. Architect, A. N. Dobbins, 1718 Cherry street, Philadelphia. Owners, First Methodist Episcopal Church, Rev. Charles Howell, Bangor, Pa. Stone, 1 story and basement, 2 stories and basement, slate roof.

Municipal Building (add.), Upper Darby, Pa. Low bidders. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Commissioners of Upper Darby, Pa. Reinforced concrete, brick, granite, limestone, steel, 3 stories and basement, 128x58 feet, wing 50x75 feet. Complete building: Jones-Redditt Co., McClatchey Building, \$310,988; J. M. Yardley, 1700 Walnut street, Philadelphia, \$311,893. Section A: Jones-Redditt Co., McClatchey Building, \$114,721; Roberts & Roller, 1700 Walnut street, Philadelphia, \$121,000. Electric: O. W. Lynch, 5743 Ogontz avenue, Philadelphia, \$6,870. Plumbing: Hughes Brothers, Upper Darby, Pa., \$19,233. Heating: Chrisman & Quillman, Norristown, Pa., \$15,895.

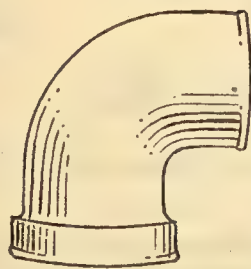
School, Amityville, Pa. Low bidder: Jones-Redditt, Upper Darby, Pa., \$54,468. Plumbing: Stauffer & Shirer, Boyertown, Pa. Architects, Scholl & Richardson, 1015 Penn street, Reading, Pa. Owners, Amity Township School Board, H. G. Moses, Secretary, Douglasville, Pa. Brick, 2 stories, 12 rooms.

Waterville Bridge, No. 89, over Ridley Creek, on line of Chestnut street, Chester, Pa. Owners taking bids due July 30th, 10 A. M. (Standard Time). Engineer, George Wright, Media, Pa. Owners, Delaware County Commissioners, G. T. Wadas, Media, Pa. Reinforced concrete, two 50-foot reinforced girder spans, 40-foot roadway, two 5-foot sidewalks. Certified check, \$10,000. Deposit, \$2.50. No refund.

Bridge, over Middle Creek, Berks County Line, Douglas Township. Bridge and approaches, Scioto Creek, near New Hanover Square. Extension of Bridge No. 74, Springhouse and Sunnyside pike, South of North Wales, Pa. Owners, Commissioners of Montgomery County, W. D. Irvine, Controller, Norristown, Pa. Owners taking bids due August 5th, 9 A. M. (Standard Time). Opened 10 A. M. Certified check.

Bridge, East Ninth street, Chester, over Ridley Creek, Pa. Low bidder: Carl R. Camp, 10 South Eighteenth street, Philadelphia. Owners, Delaware County Commissioners, G.

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T. Wades, Media, Pa. Engineer, George Wright, Delaware County, Media, Pa.

Paving, Norwood, Pa. Owners taking bids due August 8th, 7 P. M. (Standard Time). Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Norwood, Arthur W. McClellan, Secretary, Norwood, Pa. Certified check, \$250.

Road Work, Pennsylvania. Owners taking bids due August 1st at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Cambria County, A-5801-5535, Lorain Borough, Stonycreek Township, 5,105 feet. One course reinforced concrete. Certified check, \$1,000.

Indiana County, A-5461, Montgomery Township, 6,972 feet. One course reinforced concrete, 300 feet grading and drainage. Certified check, \$1,500.

Indiana County, A-6284, West Wheatfield Township, 16,384 feet. One course reinforced concrete. Certified check, \$2,000.

Lackawanna-Wayne Counties, R-171-172-335, Jefferson and Salem Townships, 22,995 feet. One course reinforced concrete. Certified check, \$3,000.

Lancaster and Berks Counties, R-518, A-5581, Broeknook Township, 22,403 feet. Grading and drainage. Certified check, \$2,500.

Lycoming County, R-266, Porter, Watson and Cummings Townships, 42,377 feet. Grading and drainage. Certified check, \$2,500.

McKean County, R-211, R-211 Spur, A-6223, Otto Township, 1,787 feet. One course reinforced concrete, consisting of combination cement concrete curb and gutter. Certified check, \$500.

Montgomery County, R-646, Horsham Township, 19,661 feet. One course reinforced concrete. Certified check, \$2,500.

Cameron County, R-100, Portage Township, bridge over Sinnemahoning, Portage, in accordance with plans S-534, concrete, fabricated structural steel. Certified check, \$500.

McKean County, R-469, Bradford Township, bridge and approaches, over Lewis Run. One course reinforced concrete, excavation, pavement, full width construction, concrete, fabricated structural steel. Certified check, \$1,000.

Tioga County, R-196, near Tioga Borough, bridges (2), spanning Tioga River and overflow channel. Concrete, fabricated structural steel. Certified check, \$2,000.

Road Work, Pennsylvania. Owners taking bids due August 2nd at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Armstrong County, R-67, Plum Creek, Kitting and Manor Townships, 56,603 feet. One course reinforced concrete, (2) bridges. Certified check, \$7,500.

Armstrong County, R-71, Sec. 2, Worthington Borough, West Franklin Township, 1,847 feet. One course reinforced concrete. Certified check, \$1,000.

Chester County, R-147, North Coventry Township, 563 feet. One course reinforced concrete. Certified check, \$500.

Dauphin and Lancaster Counties, R-129, Londonderry, Mt. Joy and West Donegal Townships, 25,071 feet. One course reinforced concrete. Certified check, \$3,500.

Huntingdon County, R-192, Sec. R-1, Brady Township, 4,956 feet. One course reinforced concrete. Certified check, \$1,000.

Indiana County, R-189, Sec. 2, A-6500, North Mahoning, South Mahoning and East Mahoning Townships, 36,167 feet. One course reinforced concrete, 956 feet grading and drainage. Certified check, \$6,000.

Lancaster County, R-215, East Lampeter-Leack, Sadsbury-Paradise and Salisbury

Townships, 48,093 feet. One course reinforced concrete. Certified check, \$7,500.

Lycoming County, A-6485, Loyalsock Township, 2,402 feet. One course reinforced concrete. Certified check, \$1,000.

Mercer County, R-213, Sec. 1, Perry, Fairview and Coolspring Townships, Mercer Borough, 60,481 feet. One course reinforced concrete, 550 feet grading and drainage. Certified check, \$7,500.

Montgomery County, R-146, Sec. 5, Pottstown Borough, 5,566 feet. One course reinforced concrete. Certified check, \$1,000.

Potter County, R-236, Sec. 1, Sharon Township, 11,770 feet. One course reinforced concrete. Certified check, \$2,000.

Washington County, R-118, Sec. 3, A-5911, Somerset and West Bethlehem Townships, Ellsworth and Cokeburg Boroughs, 18,366 feet. One course reinforced concrete, 590 feet grading and drainage. Certified check, \$5,000.

Washington County, R-118, Sec. 5, Charleroi and Speers Boroughs, 4,000 feet. One course reinforced concrete. 2,040 feet one course reinforced concrete and vitrified brick pavement. Certified check, \$2,000.

Greene County, Route 451, Monongahela Township. Bridge over Whitely Creek. Concrete, plain steel bars. Certified check, \$2,000.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Luzerne County, R-4, Larksville, Edwardsville and Kingston Boroughs. One course reinforced concrete. B. G. Coon Construction Co., Luzerne, Pa., \$34,375.15.

Tioga County, A-5762, Mansfield Borough. One course reinforced concrete. Colonial Construction Co., Pittsburgh, Pa., \$21,755.60.

Road Work, Pennsylvania. Low bidders. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Lawrence County, R. 315, Shenango Township. One course reinforced concrete. E. F. Seanlon, New Castle, Pa., \$28,659.87.

Somerset County, R. 119, Sec. R-1, Jenner Township. One course reinforced, grading and drainage. D. E. Keller & Son, Somerset, Pa., \$57,979.10.

Allegheny County, R. 287-2, Robinson and North Fayette Townships. One course reinforced concrete. J. Lee Plummer, Johnstown, Pa., \$281,907.

Washington County, R. 247, Sec. 13, New Eagle Borough. One course reinforced concrete. J. F. Patterson, Donora, Pa., \$34,197.10.

Clearfield County, R. 234, Sec. 6, Bigler and Beccaria Townships, Glen Hope Borough. One course reinforced concrete. John S. Teeter, Taneytown, Md., \$205,255.39.

Fayette County, R. 50, Sec. 1, North and South Union Townships. One course reinforced concrete. Georges Construction Co., Inc., Uniontown, Pa., \$157,151.44.

Allegheny County, R. 70, Sec. 4B1, A-4358, 3758A, Harmar Township. One course reinforced concrete and vitrified brick pavement. Rinehart Bros., East Liverpool, Ohio, \$34,756.95.

Tioga County, R. 478, S-1, Clymer-Westfield Townships. One course reinforced concrete. Sherman & Rhodes, Glenville, Pa., \$133,405.34.

Fayette County, R. 50, Sec. 1A, North and South Union Townships. Grading and drainage. Williamson Construction Co., Turtle Creek, Pa., \$142,962.55.

Delaware County, R. 599, Bethel and Upper Chichester Townships. One course reinforced concrete. Benj. Foster Co., 20th and Venango Streets, Philadelphia, \$113,362.58.

Jefferson and Clarion Counties, R. 237, Sec. 1, Clover Township, Summerville Borough, Red Bank Township. One course reinforced concrete. Hagedorn Construction Co. of West Virginia, Oil City, Pa., \$307,621.91.

Lackawanna County, A-5702, Blakely Borough. One course reinforced concrete. John Booth, Inc., Carbondale, Pa., \$22,196.58.

Washington County, R. 545, Sec. 5, Cecil Township. One course reinforced concrete. Hardy & Rankin Co., Canonsburg, Pa., \$62,314.20.

Somerset County, R. 52, Spur R-2, A-6423-5147, Benson Borough, Paint Township. One course reinforced concrete, grading and drainage. Windber Construction Co., Inc., Winber, Pa., \$111,726.50.

Schuylkill County, R. 718, R. 161, Spur, Butler Township, Ashland Borough. One course reinforced concrete. Kulpmont Construction Co., Kulpmont, Pa., \$59,160.41.

Center County, R. 107, Sec. 4, Milesburg Borough. One course reinforced concrete. B. G. Coon Construction Co., Luzerne, Pa., \$130,435.78.

Allegheny County, R. 108, Sec. 4, R. 545, Scott, Collier and South Fayette Townships. One course reinforced concrete. Michael Barber, Binghamton, N. Y., \$183,074.65.

Elk County, R. 99, Spur, Sec. 1, Fox and Jay Townships. One course reinforced concrete. Charles H. Fry Construction Co., Erie, Pa., \$187,274.74.

THOS. J. MALIA

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Pennsylvania

Contracts Awarded

Chapel, Allentown, Pa., \$250,000. Contract awarded H. John Homan, Eighteenth and Cherry streets, Philadelphia. Architects, Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Associate architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Muhlenberg College, Allentown, Pa. Reinforced concrete, limestone, steel, stone, 1 story and basement, 194x53 feet (plumbing, heating, electric separate bids), wood roof, deck, slate, pine and cement floors, excavation, dampproofing, cast stone, rolled steel sash, bond, ornamental iron work, acoustic celotex.

Office Building, 37-39 Willow street, Plymouth, Pa. Contract awarded John Curtis Co., Wilkes-Barre, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, 210 Pine street, Harrisburg, Pa. Brick, reinforced concrete, steel, 1 story and basement, 47x38 feet, slag roof, cement floors, steam heat, electric light, metal lath, bond, iron stairs, ornamental iron work.

Residence and Garage, State road and Diamond Rock road, Phoenixville, Pa. Contract awarded Townsend, Schroeder & Wood, Drexel Building, Philadelphia. Architects, Mellor & Meigs, 205 South Juniper street, Philadelphia. Owner, A. P. Scull, 3rd, Phoenixville, Pa. Reinforced concrete, stone, 104x28 feet, wing 40x20 feet, garage 30x20 feet, slate roof, composition, oak, pine and linoleum floors, painting, glazing, cork tile floors, dumb waiter, metal lath, tile and marble work, bond, casement windows, ornamental iron work, flagstone.

Residence and Garage, Bryn Mawr, Pa. Contract awarded Unkerfer Brothers, Otis Building, Philadelphia. Architects, Lovelace & Stillman, 103 West Broad street, Bethlehem, Pa. Owner, Edmund C. Evans, on premises. Frame, steel, 2½ stories and basement, 69x28 feet, shingle roof, copper wood roof deck, oak, pine and cement floors, metal lath, tile work, ornamental iron work, area gratings.

Residence and Garage, Rose Valley, Pa.

Contract awarded Herbert L. Walton, Moylan, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owner, J. Bothwell Park, Rose Valley, Pa. Stone, stucco, 2 stories and basement, 60x45 feet, 41x25 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile and marble work, metal lath, bond, ornamental iron work.

Children's Pavilion, Eaglesville, Pa. Contract awarded William Linker Co., 735 Cherry street, Philadelphia. Architects, Simon & Simon, Fidelity-Philadelphia Building, Philadelphia. Owners, Eaglesville Sanatorium, Eaglesville, Pa. Brick, concrete, limestone, stucco, 2 stories and basement, 145x45 feet, slag roof, cement floors, steam heat, electric light, tile work, bond, ornamental iron work.

Residence (alts. and add.), Elkins Park, Pa. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owner, J. Solis Cohen, Elkins Park, Pa. Cement floors, electric work, linoleum floors, sheet metal work, metal lath, plastering.

Residence, Rydal, Pa. Contract awarded Roy Randall, Jenkintown, Pa. Architects, Wigham & Cochrane, care of owner. Owner, Wayne Herkness, Packard Building, Philadelphia. Stone, steel, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work.

Residence, Speeceville, Pa. Contract awarded H. B. Alexander, Paxtang, Pa. Architects, Minich & Jamison, 23 North Third street, Harrisburg, Pa. Owner, J. F. Bowers, 321 Hummel street, Harrisburg, Pa. Stone, 2½ stories, 45x30 feet, slate roof, hardwood floors, vapor heat, electric light, tile work.

Residence, North Second street, Harrisburg, Pa. Contract awarded C. W. Strayer, State street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, Ira Kindler, 25 South Nineteenth street, Harrisburg, Pa. Brick, 2½ stories, 38x28 feet, slate roof, hardwood floors, steam heat, electric light, tile work.

Residence and Garage, Shippensburg, Pa. Contract awarded W. A. Zern, Shippensburg, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, C. Naugle, 13 Mor-

ris street, Shippensburg, Pa. Stone, 2½ stories, 61x30 feet, slate and tile roof, hardwood and concrete floors, vapor heat, oil burner, electric work, tile, marble, flagstone, cast stone.

Sunday School (add.), Waynesboro, Pa. Contract awarded A. J. Etter, 223 South Potomac avenue, Waynesboro, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Lutheran Church of Waynesboro, Rev. Dr. Travis, Waynesboro, Pa. Brick, stone, 2 stories and basement, 80x150 feet, slag roof, wood floors, electric light, tile work, brownstone.

Bank, Scranton, Pa. Contract awarded Industrial Construction Co., Union Bank Building, Scranton, Pa. Architect, D. H. Morgan, Union Bank Building, Scranton, Pa. Owners, East Scranton State Bank, care of E. H. Hausser, 1417 Ash street, Scranton, Pa. Limestone, steel, 22 feet high, 35x60 feet, slag roof, marble floors, electric work, tile, marble, casement windows, bronze.

Residence, Harrisburg, Pa. Contract awarded H. B. Alexander, Paxtang, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, F. S. Fornwald, care of architect. Brick, 2½ stories, 30x35 feet, shingle roof, hardwood, concrete and tile floors, hot water heat, electric light, tile, flagstone.

Hospital Wing, West Chester, Pa. Contract awarded William M. Francis Co., DuPont Building, Wilmington, Del. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owners, Chester County Hospital, care of architect. Steel, stucco, brick, 3 stories and basement, 35x140 feet, tile roof, concrete and terrazzo floors, hollow tile, heating extension, tile, marble, metal lath, electric light.

Residence and Garage, Tennis avenue, Ambler, Pa. Contract awarded W. D. Lukens, North Wales, Pa. Architect, F. Trout, care of Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, H. R. Sulzer, care of Sulzer Co., 252 North Eleventh street, Philadelphia. Stone, 2½ stories, 37x31 feet, slate roof, hardwood floors, tile work, electric light, moist warm air heat.

Residence, Pottstown, Pa. Contract awarded William A. Griffith, 53 Chestnut street, Pottstown, Pa. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owner, Dr. C. W. Hancox, Strand Theatre Building, Pottstown, Pa. Brick, stone, 2½ stories, 15x14 feet, 37x24 feet, 12x12 feet, slate roof, hardwood floors, electric light, tile work.

New Power Plant Building, Schuylkill Haven, Pa. Contracts awarded. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Borough of Schuylkill Haven, J. A. Hermer, Schuylkill Haven, Pa. Brick, steel, concrete, 1 and 2 stories and basement, 102x38 feet, wing 48x63 feet. Item No. 1, to Gorodon Nagle, Pottsville, Pa. Item No. 2, to Reading Chain & Block Corporation, 2401 Chestnut street, Philadelphia. Item No. 3, to Atlas Chalmers Manufacturing Co., Atlantic Building, Philadelphia. Item No. 4, to C. H. Wheeler Manufacturing Co., Eighteenth and Lehigh avenue, Philadelphia. Item No. 5, to General Elec. Co., Witherspoon Building, Philadelphia. Item No. 6, to be done by Borough of Schuylkill Haven. Item No. 7, to Specially Engineering Co., Trenton and Allegheny avenues, Philadelphia. Item No. 8, to General Elec. Co., Witherspoon Building, Philadelphia.

Bridge, East Ninth street, Chester, over Ridley Creek, Pa. Contract awarded Carl R. Camp, 10 South Eighteenth street, Philadelphia, \$85,400. Engineer, George Wright, Delaware County, Media, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Reinforced concrete, granite facing, 2-



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foot ballastard on either side, 2 60-foot approaches, steel fencing.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Clinton County, A-5551, Chapman Township. Bituminous surface treated macadam surface course; grading and drainage. Charles B. Elder, Renova, Pa., \$34,257.06.

Clearfield County, R-234-7, Decatur Township. One course reinforced concrete. David Bailey, Morrisdale, Pa., \$42,431.

Clarion-Forest Counties, R-380, Farmington and Jenks Townships. Grading and drainage. H. S. Hull, Smethport, Pa., \$42,927.25.

Luzerne County, R-5, Sec. 2, Bridge, Dupont and Avoca Boroughs, over tracks of Delaware & Hudson and Lehigh Railroads. Anthracite Bridge Co., Scranton, Pa., \$173,884.03.

Warren County, R-89, A-5547, Eldred, Deerfield and Pittsfield Townships. One course reinforced concrete, grading and drainage. Kirkpatrick-Wallis Co., Johnsonburg, Pa., \$117,516.24.

Delaware County, R-133, Upper Darby Township, Milbourne Borough. One course reinforced concrete. F. Gillespie, Clifton Heights, Pa., \$27,727.73.

Snyder County, R-28, Beavertown Borough. One course reinforced concrete. J. M. Hutchinson & Narehood Brothers, Altoona, Pa., \$53,194.52.

Allegheny County, R-76, Sec. 4, Corapolis Borough, Robinson, Kennedy and Moon Townships. E. H. Canon, Pittsburgh, Pa., \$275,973.29.

New Jersey Construction News

Apartment, Pennlyn Place, Ocean City, N. J. Architect taking sub-bids. Architect, Ralph Emmerson Fields, 1025 Cherry Street, Philadelphia. Owner's name withheld. Frame, two stories, steam heat, tile work, asphalt shingle roof, hardwood floors.

Municipal Hall, Williamstown, N. J., \$250,000. Work contemplated. Owners, Monroe Township Commissioners, Elmer Mathews, Secretary, care of Williamstown Fire Company, Williamstown, N. J.

Sunday School and Fellowship Building (add.), Hightstown, N. J. Architect taking bids, due July 30th before 5 P. M. Architect, Norman Hulme, 1524 Chestnut Street, Philadelphia. Owners, First Presbyterian Church, Rev. Tyack, Hightstown, N. J. Frame, two stories, 40x80 feet.

Hotel, Beach Front, Avalon, N. J. Work contemplated. Owners, Company, care of Wm. C. H. Joiner, Avalon, N. J., and Mayor G. Bergner, Avalon, N. J. Brick, steel, concrete, 60 rooms.

School Building, Strawbridge Avenue, Haddon Township. Work contemplated. Owners, Board of Education, Haddon Township, N. J.

Fetter School, 3rd Street, between Walnut and Mt. Vernon Streets, Camden, N. J. Owners taking bids, due July 29th 2 P. M., D. S. T. Architect, Walter Thomas Mayo, 404 Temple Building, Camden, N. J. Owners, Board of Education, A. Austeruhl, 121 South 27th Street, Camden, N. J. Brick, reinforced concrete, one story, 60x80 feet.

Catto School, 30th and Morris Streets, Camden, N. J. Owners taking bids, due July 29th 2 P. M., D. S. T. Architect, Walter Thomas Mayo, 404 Temple Building, Camden, N. J. Owners, Board of Education, A. Austeruhl, 121 South 27th Street, Camden, N. J.

Brick, fireproof, one story, 60x105 feet, pine and cement floors.

Stadium, \$1,000,000, Merion Section, Jersey City, N. J. Site selected. Work contemplated. Owners, Jersey City Commissioners, Jersey City, N. J. Seating capacity 75,000 people.

Church and Sunday School, Irvington, N. J. Preliminary plans in progress. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Irvington Methodist Episcopal Church, Rev. Roland L. Lourich, 64 Myrtle avenue, Irvington, N. J.

Residence and Garage, Atlantic and Rumson avenues, Ventnor, N. J. Sketches being prepared. Architect, Charles Schaefer, 11 South Sixteenth street, Philadelphia. Owner, W. A. Brady, Overbrook Arms, Sixty-third and Lebanon avenue, Philadelphia. Details undecided.

Sunday School (alts. and add.), Woodbury, N. J. Architect selected. Too early for details. Architect, Office of John B. Thomson, 1321 Arch street, Philadelphia. Consultant, Henry E. Tralle, Hudson View Garden, Pinehurst avenue, New York City. Owners, First Presbyterian Church, Rev. George E. Gillespie, Woodbury, N. J. Stone, brick, steel, 3 stories, 56x82 feet.

Residence, \$30,000. Princeton, N. J. Plans in progress. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Mr. and Mrs. Jones, care of architects. Stone, shingle, 2½ stories, 35x82 feet, slate roof, hardwood floors, electric light, tile work.

School, near Bridgeton, N. J. Plans in progress. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Hope-well Township School Board, L. A. Platts, R. D. 3, Bridgeton, N. J. Brick, steel, 2 stories, 70x132 feet, slate roof, maple floors, hollow tile, safety treads, dampproofing, bond (heating, plumbing and electrical work separate).

Passenger Station Facilities, Trenton Junction, N. J. Owners taking bids due July 25th. Engineer, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Reinforced concrete, brick, steel, steam heat, electric light, metal lath, tile, marble, terrazzo work, bond, ornamental iron work, bronze work, slate roof, cement floors, hollow tile, caulking, waterproofing and dampproofing, excavation, concrete and cement work, ornamental terra cotta, built-up asbestos roof, linoleum floors, plastering, slate work, plumbing, bronze grilles and thresholds, station building, 2 stories, 84x27 feet, west-bound waiting room, 1 story, 35x15 feet, passenger tunnel, platforms, platform shelters, stairways.

Water Supply Dam and Alterations to Filter Plant, Glen Gardner, N. J. Owners taking bids due July 25th. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Stowe Cottage, State Reformatory for Women, Clinton, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, stucco, 2 stories and basement, 33x19 feet, slag roof, linoleum and cement floors, metal lath, tile, marble. General: Robert Canuso, New Brunswick, N. J., \$51,995; J. W. Wester, Metuchen, N. J., \$57,955. Plumbing: Elling Brothers, Somerville, N. J., \$6,510; Charles Leupold, 1466 Haddon avenue, Camden, \$7,284. Heating: Elling

Brothers, Somerville, N. J., \$5,912; Charles Leupold, 1466 Haddon avenue, Camden, N. J., \$7,674. Electric: Hoekenbury Electric Co., Somerville, N. J., \$2,497; Peter Peifer, Trenton, N. J., \$3,455.

Chapel, New Jersey State Home for Girls, Trenton, N. J. Low bidder: Maher & Hicks, 1042 Stuyvesant avenue, Trenton, N. J., \$48,683. Plumbing, W. G. Kashner, Roebling, N. J., \$2,160. Heating, Hadley Contracting Co., Fox Building, Philadelphia, \$2,908. Electric, Commercial Elec. Co., Newark, N. J., \$5,748. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, brick, stone, steel, limestone, 1 story and basement, 95x42 feet.

New Jersey Contracts Awarded

Home for the Aged, King's Highway East and New Cooper River Drive, Haddonfield, N. J. Contract awarded Camden Construction Co., Camden, N. J., \$52,000, first 3 units. Architect, H. E. Hall, Merchantville, N. J. Owners, Order of Shepherds of Bethlehem, Charles E. Carr, Camden, N. J. Brick, steel, 2 stories, 145x32 feet, 40x32 feet, slag and slate roof, light concrete floors, bar joist, linoleum and wood floors, metal ceiling, dumb waiter, concrete foundations, vapor heat, electric light, metal lath, terrazzo and tile floors, plumbing. Building of fourth unit to be decided in October, \$12,000.

Church and School (alts. and add.), Maple Shade, N. J. Contract awarded Wills Bill Co., 1502 Locust street, Philadelphia. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Our Lady of Perpetual Help Church, Maple Shade, N. J. Brick, steel, 2 stories, 49x135 feet, slate roof, maple and pine floors, cement work, metal lath, tile work, bond, ornamental iron work.

Terminal, Stores and Offices, Perry street, Trenton, N. J. Contract awarded Harrison & Fisher, 242 Cuyler avenue, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Central Transportation Co., Broad Street Bank Building, Trenton, N. J. Brick, concrete, 2 stories, 32x80 feet, slag roof, concrete and pine floors, copper fronts, metal ceilings (heating, plumbing and electric separate), tile, marble, steel sash.

Residence and Two-Car Garage, \$25,000. Atlantic City, N. J. Contract awarded M. B. Markland Co., Schwehm Building, Atlantic City, N. J. Architect, R. B. Williams, 118 North Quincy avenue, Margate, N. J. Owner, William C. Cuthbert, City Hall, Atlantic City, N. J. Brick, 2½ stories, hardwood and cement floors, tile work, steam heat, electric light.

Residence, \$5,200. 1158 North Twenty-ninth street, Camden, N. J. Contract awarded P. C. Sholl, State Highway, Burlington, N. J. Architect, private plans. Owner, Martin K. Knodle, Camden, N. J. Frame, 1 story, 20x40 feet, slate surface shingle roof, hot water heat, electric light.

Building (add.), \$3,200. 333 Arch street, Camden, N. J. Contract awarded Essaness Corporation, Fourth and Arch streets, Camden, N. J. Architect, private plans. Owners, Inter-County Mortgage & Finance Co., Southwest Corner Fourth and Arch streets, Camden, N. J. Brick, third story add., 20x68 feet 10 inches, slag roof, electric light.

Chimney, \$1,450. Broadway and Federal streets, Camden, N. J. Contract awarded

Charles E. Baxter, Merchantville, N. J. Architect, private plans. Owners, Immaculate Conception Church, Broadway and Federal streets, Camden, N. J. Brick, 70 feet high.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 29, Sec. 8, Chimney Rock to Washington avenue, Somerset County. Edward H. Ellis, Westmont, N. J., \$376,999.80.

Route 29, Sec. 7, bridges (5), between Raritan and Chimney Rock. Richards & Jaspon, Somerville, N. J., \$94,688.65.

Route 48, Sec. 21, bridges over Still Run and Elmer Lake, Malaga-Elmer, Gloucester County, N. J. H. Denberger Construction Co., First National Bank Building, Bethlehem, Pa., \$49,129.45.

Miscellaneous Construction News

Nurses' Home, Cumberland, Md. Plans being revised. Architects, Zantzing, Boric & Medary, Otis Building, Philadelphia. Owners, Cumberland Memorial Hospital, Cumberland, Md.

School, New Midway, Md. Owners will be ready for bids in about one week. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Board of Education of Frederick County, L. G. Palmer, Frederick, Md. Brick, 2 stories, 50x75 feet, slate roof, pine floors, roof ventilators, steam heat, electric light, metal lath.

Manufacturing Building, Tarrytown, N. Y. Architect taking bids due July 26th. Architect, Albert Kahn, Detroit, Mich. Owners, Chevrolet Motor Co., Detroit, Mich. Brick, reinforced concrete, steel, 1 story and basement, 1,200x400 feet (plumbing, heating, electric, sprinklers reserved), cement, tile roof, cement floors, rolled steel sash, bond, ornamental iron work, waterproofing.

Grade School, Minquadale, Del. Low bidders. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, County Building, Wilmington, Del. Brick, 1 story, 117x43 feet, timber roof construction. Jones-Redditt Co., McClatchey Building, Upper Darby, Pa., \$29,000; J. H. Hutchinson, Newark, Del., \$37,113.

School, Marshallton, Del. Plans in progress. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Delaware Industrial School for Colored Girls, Marshallton, Del. Cinder block, stucco, 2 stories and basement, 30x150 feet, tile and asbestos shingle roof, maple and pine floors, electric light.

Central Heating Plant, Marshallton, Del. Plans in progress. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Delaware Industrial School for Colored Girls, Marshallton, Del. Cinder block and stucco, 1 story, 20x30 feet, concrete floors, steel sash, electric work, fire doors.

Apartment (18-family), Dover, Del. Plans in progress. Too early for details. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, name withheld. Non-fireproof, 3 stories, irregular size, tile, marble.

Residence, State street, Dover, Del. Architects taking bids due August 1st. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, Jacob Ehrlich, 123½ Lockerman street, Dover, Del. Brick, stucco, 2½ stories, 30x40 feet, slate roof, hardwood floors, oil burner, electric light, tile work, steel casement windows.

Hartford War Memorial, Hartford, Conn. Work contemplated. Architect, Paul Cret, Otis Building, Philadelphia. Owners, City of Hartford, Conn.

Road Work, Delaware. Owners taking bids due August 13th at 2 P. M. (Eastern Standard Time). Owners, State Highway Department, Dover, Del.

Contract 119, The Levels Road, 3.96 miles. Excavation, borrow, cement concrete, reinforcement, metal pipe, R. C. pipe, concrete.

Contract 135, Farmington to Andrews ville, 2.2 miles. Clearing, grubbing, excavation, borrow, crushed stone, crushed slag, metal pipe.

Miscellaneous Contracts Awarded

Apartment House, Wilmington, Del. Contract awarded Karno-Smith Construction Co., care of J. A. Anderson, DuPont Hotel, Wilmington, Del. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owners, Twelve-Twelve Development Co., J. F. Darling, President, Christiana avenue, Wilmington, Del. Brick, reinforced concrete, limestone, 4 stories, 72x96 feet, tile and plastic roof, hardwood floors, hollow tile, elevators, roof ventilators, waterproofing and dampproofing, steel stack, incinerators, bronze, ornamental iron, fire doors, steel sash, tile, marble, metal lath, oil burner.

Roof Garden Addition, Wilmington, Del. Contract awarded J. S. Hamilton Co., 829 Orange street, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Wilmington Y. M. C. A., 908 King street, Wilmington, Del. Fireproof, 1 story, 40x70 feet, concrete roof, heating extension, electric light, steel sash.

Honor Building, Delaware Industrial School for Girls, Claymont, Del. Contract awarded Van Sant Brothers, 831 Tatnall street, Wilmington, Del. Architect, Walter Carlson, DuPont Building, Wilmington, Del. Owners, Delaware Industrial School for Girls, Claymont, Del. Stone, tile, 2 stories, 30x50 feet, 30x60 feet, slate roof, oak floors.

Residence (alts.) and Garage, Holly Oak, Del. Contract awarded F. G. Krapf, 421 Orange street, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, Paul Hessler, Orchard avenue, Holly Oak, Del. Brick, stucco, 2 stories, 24x40 feet, slate roof, concrete and pine floors, electric light.

On August 1st, 1929, the Sterling Caulking Company, formerly of 2222 Chestnut Street, Philadelphia, will open new offices at 3835 Lancaster Avenue, Philadelphia. Their telephone number will be Baring 4230.

BUILDING TRADES COURSES

During the school year, 1929-30, the Wanamaker Institute will offer courses of vital interest to every concern engaged in the Building Trades.

The courses offered are:

Architectural Drawing—A two year course covering Elements of Architecture, Design, Descriptive Geometry, Detailing, Shades and Shadows, Perspective, and Architectural Drafting. It also includes a study of the History of Architecture.

Blue Print Reading—A three and one-half months' course for mechanics and

apprentices, who wish a working knowledge of Blue Prints in their respective line of work.

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Steel Square—A one year course. Especially worked out for carpenters, giving them *practical* instruction in the use of the Steel Square, particularly as applied to Roofs.

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GRADE-MARKING AS THE PRODUCER SEES IT

(Address by J. F. CARTER, Trade Promotion Manager, Southern Pine Association at Convention of National Association of Purchasing Agents at Buffalo, N. Y., June 3, 1929)

(Continued from issue of July 17)

Service is the watchword of industry today. As I stand before you at this moment you are the customer. If the manufacturer is to command more money for his product than does his competitor, he must perform an outstanding and valuable service. What greater service do you wish than the thought, the care, the training and the experience of the men who operate large sawmills, men who have spent their lives in the industry, who know which trees to choose, into what items every log should be cut, who use their training and knowledge of lumber to make the best product which can be made from each particular log?

Do you pay for a trade-mark, as some have said quite often when discussing this important subject of grade-marking, or do you pay for the quality which that trade-mark represents? When Andrew Carnegie, standing before a graduating class at Stevens Institute said, "If you can sell a hat for one dollar, you can sell it for two dollars if you stamp it with your name and make the public feel that your name stands for something." Andrew Carnegie used excellent language, and I am fearful that many have misinterpreted that sentence. Please notice that Carnegie made absolutely everything rest on the value of the name which the maker must stamp upon the hat if he is to sell it for two dollars. Merely stamp-

ing one's name on that hat will not make it saleable at two dollars if it be a dollar hat. But to put something into one's name, make the public believe it stands for something, is the great thing. Stamping a grade-mark on lumber does not raise the price—it guarantees the grade. And, please notice this: when that official grade-mark is stamped on a piece of lumber there is behind it the long years of training, the knowledge and the technical ability of men who know their raw material, the methods of fabricating that material into a product, and who know their product leaves their mills as a quality piece of goods. The grade-mark stands for something.

You have seen the famous Squibb advertising wherein they have laid stress on the value of the "priceless ingredient." The "priceless ingredient" is the name behind the product. In lumber the priceless ingredient is the grade-mark. That priceless ingredient is the one thing which, when put into a product, makes the public understand that behind that product something of great value stands—the brains, the ability, the knowledge of the man who produced the goods.

Packard uses a slogan "Ask the man who owns one." Could Packard lower the quality of the material which goes into its car and get the same price for any length of time? It could not. And why? Because the public would very soon lose confidence in the name, and the loss of that confidence would be irreparable. Does any manufacturer, working through the years to establish confidence in a name, deliberately take advantage of the public by lowering the quality of its products or by raising the price on its product because confidence has been established? It does not happen. Why should anyone insinuate that because the lumber manufacturer has answered the demand of the public by marking the official grades on his product, he is merely seeking a higher price? Such an insinuation against industry would lead one to think that honesty is not the best policy, when every one of us knows it is. The lumber manufacturer who is unafraid, who stamps the proper grade upon his lumber and puts it out with his guaranty behind it, is building for his industry a confidence which cannot otherwise be added.

Yes, there is a difference in price, in a tremendous number of cases in which comparisons can be made, as between lumber which is grade-marked and lumber which is not grade-marked. The grade-mark is not the cause of the difference in price. It is the quality which brings about the difference. I have heard many statements to the effect that there is just as good lumber without the grade-mark as there is with the grade-mark. That statement is correct. But can you purchasing agents choose the one with-

out the grade-mark which is just as good as the one on which appears the grade-mark? If you cannot, you are only safe when you require the mark and refuse to accept without the mark.

You have doubtless heard the statement, and you will probably hear it again today, that official inspections can be obtained if there be any doubt in your mind as to the grade of lumber you are getting. May I ask why, then, the lumber should not be properly marked as to its grades? Why have the expense of claim inspections, why have the expense of so-called certificates of grades, when it is so simple to have the inspector's stamp on each stick of lumber? When a farmer buys artificial fertilizer or any prepared food for his animals, the formula is printed on a tag attached to the bag. Does anyone ask for a chemical analysis, or does the farmer ask the manufacturer to send him a certificate of grade? He looks on the tag, reads the formula—and that is the grade-mark. Don't say there is any difference, for there is none. In both cases it is the guaranty of the manufacturer that he is delivering what he has been paid for.

Some of you may wonder what are the reasons for the lumber manufacturer's wishing to supply grade-marked lumber. Some have insinuated that it is for the ulterior purpose of raising the price. I know that statement has been made and has been promoted by many who are opposed to the practice of the grade-marking of lumber, though they preach in beautiful words about the principle. If the principle of grade-marking is good, the practice of it is far better, for you do not get any better lumber because groups of men believe in the mere principle. It is the proper grade of lumber you wish for your money.

Here lies the very potent reason why the thinking element among lumber manufacturers were happy to accept the suggestion of Mr. Herbert Hoover, when he was secretary of commerce, that they put the mark of the grade on every stick of lumber. So much juggling of grades had been practised and so much poor quality of lumber had been sold when high quality lumber and timbers were specified that lumber in many cases failed. Dry rot set in, strength was not present, too much shrinkage took place and other ills of this kind caused the particular lumber to fail. Did the owner of a plant or a warehouse or a residence blame himself or his architect or his engineer for having put the wrong quality or wrong grade into the building. Not a bit of it. Instead, he did what human beings always do. He blamed the failures on the entire product. About that time the astute trade promotion men for steel or cement or brick or stone called attention to their products, indicating the vast and innumerable cases

in which their products were used without a single failure. Steel won't rot. Concrete won't burn. Brick is one of the oldest building materials and does not burn nor rot and has no knots and does not shrink. But wood?—heavens, there is your own case to look upon.

If lumber grades had not been juggled in these years that have passed, and if proper qualities of wood had been employed in each place where it was used, these failures would not have taken place, and the substitute materials would have had a much more difficult time making headway. After a long number of years the lumber manufacturer has come to realize that it was not his product that was at fault—it was the wrong use of his product. The wrong quality was used for a given purpose or the wrong grade was used. Substitution in both cases. Eliminate the substitution and wood will come back to its place in the sun. It has a place, an outstanding one, and its importance in the life of man cannot be denied by the most ardent supporter of any other material if he be upstanding and straightforward.

The manufacturer asks only that he be allowed to give the purchasing agent what he really wants, what he really needs. He does not get a fair chance to properly supply the needs of the buying fraternity unless the purchasing agents strongly and forcibly require the proper grades and proper qualities.

I have mentioned quality often. There are certain uses where a soft, rapidly grown wood should be employed. There are other places where only the strongest of strong woods should be used. There are places which are continually dry; there are others where dampness is constant and where rot can set in if the proper resistance is not offered. Strength as a beam or post may be required in one use, durability against the elements in addition to strength may be required. These uses need different qualities. There are enough trade promotion men in the United States representing the various species of wood and also the National Lumber Manufacturers' Association to supply information to each of you. A simple request will bring a man from somewhere to discuss with you or your architects and engineers or your production men in the factories the uses to which lumber shall be put and the grade and quality which is best for the purpose. No guesswork is necessary with such organizations as the lumber fraternity has at your command.

In the South we have longleaf and shortleaf Southern Pine. There are places where you may use either shortleaf or longleaf. There are places where one or the other should be used. Trained men are waiting to answer your call. Let them tell you the quality and the grade you

need, and then require it to be grade-marked.

How about availability? You will probably be told this afternoon that there is not enough grade-marked lumber available to care for your demands if you require it. According to the latest figures of the National Lumber Manufacturers' Association there are at this moment 350 carloads of lumber being shipped each day from grade-marking mills. Is that enough to care for your requirements? Three hundred and fifty cars of lumber each day, six days a week, is a rather considerable amount with which to answer that statement about availability of supply. It is quite probable that those who have brought up the question of availability did not quite realize how much lumber is being grade-marked. Think of 350 cars each day, and remember there are six days each week. Also, that there are still large quantities of lumber not yet grade-marked but which will be marked so soon as the demand is seen.

Proof that structural steel can successfully carry its designed loads and withstand deterioration through corrosion and other sources has been afforded by careful analysis of the material which was removed from the Tacoma Building in Chicago. This was the first building of what is known as a "skyscraper" type of construction ever erected in the United States. It was a 13-story building, erected in 1887 by the George A. Fuller Construction Company. The building was designed by the architectural firm of Holabird & Roche, now Holabird & Root. In this type of construction the walls are supported on the steel framing. It differs from other construction in that previously walls were self-supporting. Holabird & Root, we understand, had the collaboration of Purdy & Henderson, bridge engineers, who had that day combined and improved upon the work of William LeBaron Jenney of the firm of Birnham & Root, who were also experimenting with skyscraper designs.

The engineering and architectural records pertaining to this building with the exception of the drawings were destroyed by fire; therefore the best evidence we have of the materials of construction was afforded by a careful analysis of the building during demolition. This disclosed the fact that the Tacoma Building had walls which were carried at each floor on steel spandrel beams attached to cast-iron columns. According to competent authorities writing on the subject it was in this building that was first seen the startling spectacle of bricklayers starting to lay walls midway between roof and ground.

Inspection of the drawings by the representatives of the American Institute of Steel Construction indicates it would seem

that the framework of this building was originally designed to make use of either rolled and fabricated shapes or cast-iron for all supporting columns. The cast-iron columns used to bear the perpendicular load had a circular cross section. This shape provided efficient strength and rigidity. Some of the columns were cast with four rectangular ribs spaced ninety degrees apart. They were bolted together from end to end, and were cast with brackets to which the beams were bolted.

Few rivets were used in the construction of this building. This results from the simple reason that the automatic riveter was not then invented. Such riveting as was done in the days when the Tacoma Building was erected was by a hand hammer which was known as a "flogging-hammer." This hammer had a long handle which gave added impress to the swing of the riveter. Rivets were used only in places where steel was joined to steel, and bolts where the steel was joined to cast-iron brackets. The rivet heads were all as neatly finished as any which might be observed in a modern structure of today. Only brick and tile were used to cover the steel framework. That was the total protection offered the structural members during the forty-two years the building was standing.

The Illinois Society of Architects, we are informed, appointed a committee to make an examination of the condition of the material in the building as it was wrecked. Henry Penn, District Engineer of the American Institute of Steel Construction, located at Chicago, also submitted samples of the material to Robert W. Hunt Company, engineers of Chicago, for careful investigation. A report of the Hunt Company, signed by G. B. Givault, states:

"We are tabulating below the results of the analysis of one sample of metal frame submitted to us on same date, and designated as material taken from the Tacoma Building, Chicago:

	%
Carbon	0.12
Manganese	0.40
Phosphorous	0.063
Sulphur	0.032

"The above analysis indicates this material to be steel and not wrought iron. The manganese content is especially significant. An etching test made on a portion of the metal frame further verifies this conclusion."

The steel from the old building has been subjected to chemical analysis, etching and microscopic examination. There has been no evidence of deterioration in the crystalline structure, and it is believed that the framework of this building would have been good and efficient for many years to come. Original location markings

in paint were as fresh and bright as when the beams were first covered. The material in the webs of the beams as originally rolled was less than one-quarter inch in thickness, yet was still perfect and capable of carrying their loads when the sections were removed.

MORTAR JOINT ABLE TO MAKE OR BREAK THE EFFECT OF BRICK IN THE WALL

Three elements must be carefully considered in dealing with the mortar joint—its color, its texture and its size and kind. The color of the mortar joint may be such as entirely to destroy the beauty of the brick. On the other hand, if it is properly chosen it will bring out the fine shades and tones of the brick in such a way as to enhance very greatly its natural beauty.

Then the mortar joint has a certain texture which is produced either by finishing it rough or smoothing it with the trowel or a tool made for that purpose. This mere treatment of the surface of the mortar joint has more to do with the appearance of the wall than one might at first suppose.

In addition to that, the size of the mortar joint, running from a thin "battered" joint up to an inch in width, affects the color relation of the whole surface, and the kind of joint, whether cut flush, raked out or tooled in various shapes, has a distinct bearing on the whole effect.

In a word, do not neglect the mortar joint, for it is one of the most important elements that go to make up the beautiful fabric of the brick wall, in the building of which there is deserved and required the exercise of a fine discriminating taste.

—*Permanent Color.*

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS
Metalweld, Inc. . . . 26th and Hunting Park Ave., Phila.

AIR COMPRESSORS FOR HIRE
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.

AIR WASHERS
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE
DeGiuseppe Art Marble Co. . . 818 N. 48th St., Phila.
Pigeon, Ernest A. 4231 Filbert St., Phila.

ARTESIAN WELLS
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
Robbins, Chas. H., Co. Ranstead & Mole Sts., Phila.
Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

ASBESTOS SHINGLES
Warren-Ehret Co. Luzerne and "E" Sts., Phila.

ASBESTOS WALL PANELS
Howard Ketcham 3rd & Girard Ave., Phila.

BLUE PRINTS AND BLUE PRINT PAPER
Blue Print Shop 1520 Sansom St., Phila.
Robbins, Chas. H., Co. Ranstead & Mole Sts., Phila.
Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

BOILER AND PIPE COVERING
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

BRICK
Cox, Janeway & Co. Real Estate Trust Bldg., Phila.
Ketcham, O. W. 121 N. 18th St., Phila.

BUILDERS
Anthony Darin & Bros. 5552 Master St., Phila.
Mitchell Bros. 2125 Race St., Phila.
John Schnabel, Inc.,
N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDING MATERIALS
Strathmann, Henry E.,
Kensington and Lehigh Aves., Phila.

CABINET WORK
Huskey Mfg. Co. Columbia and Howard Sts., Phila.

CAISSONS
Foundation & Construction Co. . . 1320 Race St., Phila.

CASEMENTS (Window or Door)
DePett Casements 900 Chestnut St., Phila.

CAULKING
Malia, Thos. J. 226-32 W. Mentor St., Phila.
Jules H. Rosenberg 2313 Walnut St., Phila.

CAST STONE
New Jersey Cast Stone Co. Vineland, N. J.

CEMENT WORK
D'Lauro, John 7732 Ardleigh St., Phila.
Massiah, Frederick Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

COLUMNS (Metal)
Pearce Fireproof Co. 1911 N. 2nd St., Phila.

CONCRETE WORK
Massiah, Frederick Juniper and Cypress Sts., Phila.

CORK TILE
Livezey Linoleum Floors, Inc. . . 128 S. 19th St., Phila.

CURBING
Graham, Frank C. 314 S. Camac St., Phila.

DAILY BUILDING NEWS
Building News Pub. Co. 1530 Chestnut St., Phila.

DAMP-PROOFING
Anti-Hydro Waterproofing Co.,
1518 Walnut St., Phila.

Barnett Bingswanger, Jr. 829 N. 3rd St., Phila.
Hydroseal Waterproofing Co. . . 829 N. 3rd St., Phila.

DISMANTLING
Industrial Dismantling Co.,
2500 E. Huntingdon St., Phila.

DRAWING MATERIALS
Robbins, Chas. H., Co. Ranstead & Mole Sts., Phila.
Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

ELECTRICAL REFRIGERATION
Philadelphia Gas Range Co. . . . 1026 Arch St., Phila.

ELECTRIC SAWS
Crowe Safety Saw Sales Corp.,
515 Real Estate Trust Bldg., Phila.

FENCES
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.

FIRE DOORS
Frank W. Butterworth 1518 Walnut St., Phila.

FIRE INSURANCE
Insurance Co. of North America . . 1600 Arch St., Phila.
Phila. Fire & Marine Insurance Co.,
N. E. Cor. 15th and Locust Sts., Phila.

FIREPROOFING
Pearce Fireproof Co. 1911 N. 2nd St., Phila.

FLAG POLES
J. E. Lingo & Son, Inc. Camden, N. J.

FLOORING COMPOSITION (Mineral)
Selby, Battersby & Co. 810 Noble St., Phila.

FLOOR HARDENER
Anti-Hydro Waterproofing Co. . . 1518 Walnut St., Phila.
Hydroseal Waterproofing Co. . . 829 N. 3rd St., Phila.

FLOORING (Cork)
Livezey, John R.,
Glenwood Ave., W. of 22nd St., Phila.

Livezey Linoleum Floors, Inc. . . 128 S. 19th St., Phila.
Selby, Battersby & Co. 810 Noble St., Phila.

FLOORING (Mastic & Mastic Tile)
Selby, Battersby & Co. 810 Noble St., Phila.

FLOORING (Rubber Tile)
Livezey Linoleum Floors, Inc. . . 128 S. 19th St., Phila.

Selby, Battersby & Co. 810 Noble St., Phila.

FLOORING (Steel)
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.

FLUE LINING
Clausen, Wm. H. 27th and Diamond Sts., Phila.
Cox, Janeway & Co. Real Estate Trust Bldg., Phila.

FOUNDATIONS
Foundation & Construction Co. . . 1320 Race St., Phila.

GAS RANGES
Philadelphia Gas Range Co. . . . 1026 Arch St., Phila.

GRATINGS
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.

GUARDS (Machine and Engine)
Strandwitz & Scott, Inc.,
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HEATING CONTRACTORS
Bowers Bros. & Co. 2015 Sansom St., Phila.

HOLLOW TILE
Clausen, Wm. H. 27th and Diamond Sts., Phila.
Cox, Janeway & Co. Real Estate Trust Bldg., Phila.

Ketcham, O. W. 121 N. 18th St., Phila.

INSURANCE
Insurance Co. of North America . . 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
N. E. Cor. 15th and Locust Sts., Phila.

E. I. Simpson Co. Widener Bldg., Phila.
Stokes, Packard, Houghton & Smith,
S. E. Cor. 5th and Walnut Sts., Phila.

IRON AND STEEL (Structural and Ornamental)
Henry A. Hitner's Sons Co.,
Gaul and Huntingdon Sts., Phila.

Lederle, Robt. B., & Co. Witherspoon Bldg., Phila.
Montgomery Iron & Steel Co. . . 2500 Duncan St., Phila.

Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

KITCHEN CABINETS
Philadelphia Gas Range Co. . . . 1026 Arch St., Phila.

LEVELS
Robbins, Chas. H., Co. Ranstead & Mole Sts., Phila.
Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

LINOLEUM
Livezey Linoleum Floors, Inc. . . 128 S. 19th St., Phila.

LOCKERS (Steel)
Richard W. Jefferis Co.,
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LUMBER
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MARBLE
Frank W. Butterworth 1518 Walnut St., Phila.

MARBLE AND MOSAIC
Belfi Bros. Co. 1923 Market St., Phila.
Franklin Tile & Mosaic Co. . . 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co. . . . 433 Spruce St., Phila.
Pennsylvania Tile & Mosaic Co. . 1637 Wood St., Phila.
Roman Mosaic & Tile Co. . . . 435 Green St., Phila.

MASON BUILDER
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METAL DOORS
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METAL LATH
Pearce Fireproof Co. 1911 N. 2nd St., Phila.

METERS
Phila. Meter Co. Real Estate Trust Bldg., Phila.

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Ketcham, O. W. 121 N. 18th St., Phila.

PHOTOSTATS
Weber, F., Co. 125 S. 12th St., Phila.

PILES
Foundation & Construction Co. . . 1320 Race St., Phila.

PLASTER (Colored)
California Stucco Products Co. . . 1600 Arch St., Phila.
Mayflower Stucco Co. Plymouth Meeting, Pa.

PLASTERERS
Pigeon, Ernest A. 4231 Filbert St., Phila.

PLASTERING (Ornamental)
DeGiuseppe Art Marble Co. . . . 818 N. 48th St., Phila.
Pigeon, Ernest A. 4231 Filbert St., Phila.

PORCH ENCLOSURES
Malia, Thos. J. 226-32 W. Mentor St., Phila.

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Philadelphia Gas Range Co. . . . 1026 Arch St., Phila.

REFRIGERATORS
Philadelphia Gas Range Co. . . . 1026 Arch St., Phila.

REINFORCING BARS
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Montgomery Iron & Steel Co. . . 2500 Duncan St., Phila.
Penn Steel Service Co. Fuller Bldg., Phila.

ROLL SCREENS
American Metal Weatherstrip Co.,
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ROOFING
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John Nacey Co. 7254 Paschall Ave., Phila.
Warren-Ehret Co. Luzerne and "E" St., Phila.

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ROOFING SLATE
Chapman Slate Co. Bethlehem, Pa.

ROOFING TILE
Ketcham, O. W. 121 N. 18th St., Phila.

SAFETY TREADS (Grating)
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.

SCAFFOLDING
Patent Scaffolding Co. 2835 Bridge St., Phila.

SCREENS (Fly)
Malia, Thos. J. 226-32 W. Mentor St., Phila.

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Philadelphia Septic Tank Co.,
1129 Glenwood Ave., Phila.

SEWAGE DISPOSAL SYSTEMS.
Chandler & Starr 119 N. 4th St., Camden, N. J.

SEWER PIPE
Clausen, Wm. H. 27th and Diamond Sts., Phila.
Cox, Janeway & Co. Real Estate Trust Bldg., Phila.

SHEET METAL WORK (General)
MacGarvie, James B. Magnolia, N. J.
Strandwitz & Scott, Inc.,
537-49 N. 2nd St., Camden, N. J.

SHEETROCK (Wall Board)
Pearce Fireproof Co. 1911 N. 2nd St., Phila.

SHELVING (Steel)
Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

SOUNDINGS
Ridpath & Potter Co.,
S. W. Cor. 22nd & Cambria Sts., Phila.

STEEL SASH
Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

STONE
St. Martin's Building Stone,
Germantown Ave. & Rumpf Rd., Chestnut Hill, Pa.

STUCCO MANUFACTURERS
California Stucco Products Co. . . 1600 Arch St., Phila.
Mayflower Stucco Co.,
Chestnut Hill, Phila., and Plymouth Meeting, Pa.

SURETY BONDS
Insurance Co. of North America . . 1600 Arch St.
E. I. Simpson Co. Widener Bldg., Phila.

TERRA COTTA (Architectural)
Atlantic Terra Cotta Co. Otis Bldg., Phila.
Conkling-Armstrong Terra Cotta Co.,
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Ketcham, O. W. 121 N. 18th St., Phila.

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Clausen, Wm. H. 27th and Diamond Sts., Phila.
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Belfi Bros. Co. 1923 Market St., Phila.
Franklin Tile & Mosaic Co. . . 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co. . . . 433 Spruce St., Phila.
Pennsylvania Tile & Mosaic Co. . 1637 Wood St., Phila.
Roman Mosaic & Tile Co. . . . 435 Green St., Phila.

TRANSITS
Robbins, Chas. H., Co. Ranstead & Mole Sts., Phila.
Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

TRAVERTINE
DeGiuseppe Art Marble Co. . . . 818 N. 48th St., Phila.
Pigeon, Ernest A. 4231 Filbert St., Phila.

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Ketcham, Howard 3rd & Girard Ave., Phila.

WALL BOARD
Ketcham, Howard 3rd & Girard Ave., Phila.

WALL COPING
Clausen, Wm. H. 27th and Diamond Sts., Phila.
Cox, Janeway & Co. Real Estate Trust Bldg., Phila.

WALL FINISH
California Stucco Products Co. . . 1316 Olive St., Phila.
Mayflower Stucco Co. Plymouth Meeting, Pa.

WALL PLASTER
California Stucco Products Co. . . 1316 Olive St., Phila.
Mayflower Stucco Co. Plymouth Meeting, Pa.

WATER HEATERS
Philadelphia Gas Range Co. . . . 1026 Arch St., Phila.

WATERPROOFING
Anti-Hydro Waterproofing Co. . . 1518 Walnut St., Phila.
Hydroseal Waterproofing Co. . . 829 N. 3rd St., Phila.

WEATHERSTRIPPING (Metal)
American Metal Weatherstrip Co.,
2115 Diamond St., Phila.

Anderson, John 3031 N. Hope St., Phila.
Malia, Thos. J. 226-32 W. Mentor St., Phila.

WINDOW GUARDS AND WIRE PARTITIONS
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BUILDING PAPER

Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 31
July 31, 1929

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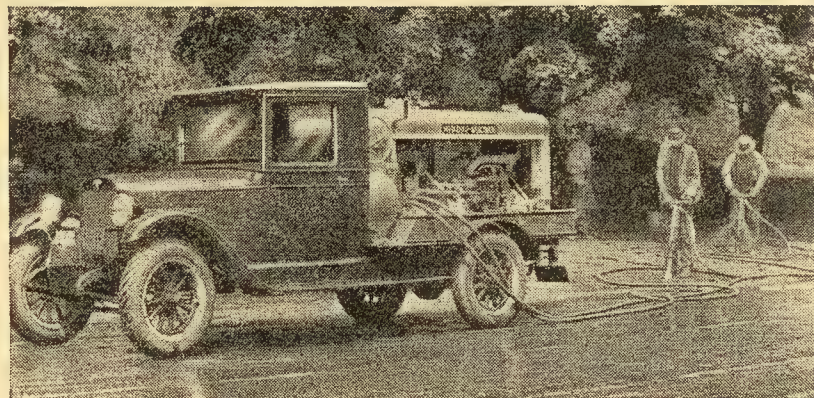
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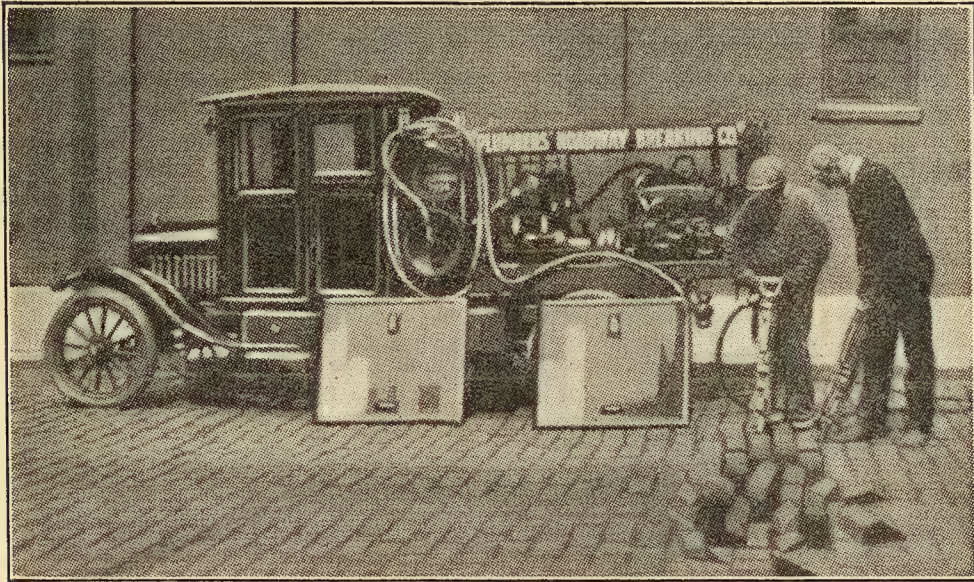
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Engineering and the Building Trades

PHILADELPHIA

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July 31, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

College of Optometry, Philadelphia. Site not yet selected. Work contemplated. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owners, Pennsylvania State College of Optometry, Dr. Fitch, 1809 Spring Garden street, Philadelphia.

Presbyterian Seminary, Philadelphia or vicinity. Work contemplated. Owners, Westminster Theological Seminary, care of Morgan T. Thomas, Garrett-Buchanan Co., 18 South Sixth street, Philadelphia.

Hospital (add.), 1514 North Fifteenth street, Philadelphia. Work contemplated in fall. Owners, National Stomach Hospital, Miss Emma Williamson, Superintendent, on premises.

Factory, Southwest Corner Erie and D street, Philadelphia. Work contemplated. Engineer, Company Engineer, Providence, R. I. Owners, Grinnell Automatic Sprinkler Co., Seventeenth and Sedgley streets, Philadelphia, care of Mr. Reiter. Brick, steel, 2 stories, size of tract 200x337 feet.

Service Station, Northeast Corner Fifty-ninth and Walnut streets, Philadelphia. Plans in progress. Owners, Pure Oil Co., Widener Building, Philadelphia. Architect, private plans.

Church, Ogontz and Wister streets, Philadelphia. Preliminary plans in progress. Architects, C. W. Bolton & Son, Schaff Building, Philadelphia. Owners, Faith Reformed Church, Rev. E. E. Lophart, 7233 Ogontz avenue, Philadelphia.

Branch Bank (alts.), Twentieth and Passunk avenue, Philadelphia. Plans in progress.

Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Sixth National Bank, Norman Ives, Second and Pine streets, Philadelphia. General interior and exterior alterations.

Parish House, Third and Reed streets, Philadelphia. Plans in progress. Architect, Robert Gill, 5600 Germantown avenue, Philadelphia. Owners, Church of St. John the Evangelist, Rev. H. C. McHenry, on premises. Brick, stone, 2 stories, 102x31 feet, built-up roof, maple floors, vapor vacuum heat, electric light, plumbing. Address all communications to architect only.

Apartment House (50 suites), \$200,000. Germantown, Philadelphia. Plans in progress. Owner, care of architect. Architect, William L. Charr, Victory Building, Philadelphia. Steel, stone, brick, 4 stories and basement, 85x112 feet, slag roof, hardwood floors, elevators, safety treads, metal weather strip, waterproofing and dampproofing, flagstone, cast stone, steel skylights and sash, wall finish, incinerators, cinder concrete block, area gratings, bronze work, wrought iron pipe, casement windows, soundproofing, iron stairs, floor hardener, fire and kalamein doors, tile, marble and terrazzo work, metal lath, electric light, oil burner, vapor heat, electric.

Gasoline Bulk Distribution Terminal, Fifty-eighth and Philadelphia & Reading Railroad, Philadelphia. Plans completed. Work to start in 10 days. Further announcement in one week. Architect, private plans. Owners, Sherwood Brothers, Inc., Twenty-first and Packer avenue, Philadelphia.

Lodge Building, 1310-16 North Broad street, Philadelphia. Working plans in progress. Architect will be ready for bids September 1st. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Loyal Order of Moose, Lodge No. 54, on premises. Brick, steel, concrete, stone, limestone, 4 stories and basement, 110x200 feet, and L-shape addition to present auditorium.

Apartment House, 1200 South Fifty-eighth street, Philadelphia. Owners will be ready for sub-bids in one week. Architect, private plans. Owners, Parkview Realty, care of S. Silverman, 228 South Fortieth street, Philadelphia. Brick, steel, stone, 4 stories, 65x121 feet, 40x121 feet.

Club House, 1616 Latimer street, Philadelphia. Ready for bids in one week. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, Cosmopolitan Club, care of architect. Brick, stone, steel, 23 feet 6 inches x 85 feet, number of stories not decided.

Swimming Pool (add.), 975 North Seventh street, Philadelphia. Builder taking sub-bids. Architect, private plans. Owners, Bershad's, Inc., 975 North Seventh street, Philadelphia. Excavating, underpinning, concrete walls, membrane waterproofing, tile work, 15x30 feet.

School of Occupational Therapy, 1839-45 Lombard street, Philadelphia. Ready for bids in 3 weeks. Architects, Bissell & Sinkler, 1520 Locust street, Philadelphia. Owners, School of Occupational Therapy, 2200 Delancey street, Mrs. Georgina Yeatman, East Graver's lane,

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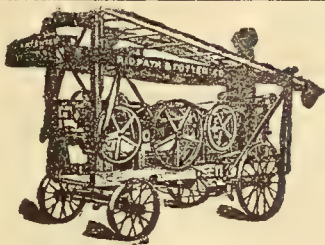
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Gas Filling Station, Fifty-fourth and Chester avenue, Philadelphia. Owners will build. Architect, private plans. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Hollow tile, stucco, 16x18 feet, tile roof, electric work, cement work.

Swimming Pool and Recreation Building, Kensington and Hunting Park avenues, Philadelphia. Architect taking bids due August 6th. Architect, Edwin A. Schoeppe, 1602 Spruce street, Philadelphia. Owners, Juniata Recreation Co., care of architect. Brick, structural steel, reinforced concrete, 3 stories (electric, plumbing reserved), Spanish tile roof, cement and maple floors, hollow tile, metal lath, terrazzo work, rolled steel sash, kalamein doors, ornamental iron work, flagstone floors, 40x64 feet, 59x40 feet, 78x114 feet, 40x195x25 feet.

Club Room (alts. and add.), 1717 North Broad street, Philadelphia. Architects taking bids due August 5th. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Keneseth Israel Congregation, on premises.

School (alts.), East Mt. Airy avenue and Boyer street, Philadelphia. Architects taking bids due August 1st. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, Holy Cross Roman Catholic Church, Rev. W. T. Brady, on premises. Interior alterations, concrete, mill work, steel, folding partitions, plastering, metal lath.

School, Fifty-fifth and Cedar avenue, Philadelphia. Architects taking bids due August 1st. Architect, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, Transfiguration Roman Catholic Church, Rev. D. J. McGettigan, on premises. Cloak rooms, electric light, painting, mill work, metal lath.

Factory (add.), Plant No. 8, Wissahickon and Abbottsford road, Philadelphia. Architects taking bids due August 6th, 10 A. M. sharp. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Atwater Kent Co., on premises. Brick, stone, steel, iron, 1½ stories and basement, 403x712 feet, slag roof, gypsum roof deck, hollow tile, electric elevators, safety treads, caulking, steel partitions, steam heat, electric light, metal lath, tile and marble work, rolled steel fire and kalamein doors, sprinkler.

Interior Painting, United States Post Office and Custom House, Philadelphia. Owners taking bids due August 6th, 1 P. M. (Standard Time). Owners, United States Government, J. McLaughlin, Custodian, on premises. Specifications from custodian only.

Electric Car Shop, Wayne Junction, Philadelphia. Owners taking bids due August 7th. Engineer, Clark Dillenback, Reading Ter-

minal, Twelfth and Market streets. Owners, Reading Company, Terminal, Twelfth and Market streets, Philadelphia. Brick, concrete, steel, 1 story and balcony, 137x325 feet, lean 23x119 feet, gypsum roof, mastic floors, hollow tile, elevator, waterproofing, electric light, rolled steel sash, hollow metal doors, iron stairs, excavation.

Apartment Houses (2), \$500,000. East side Fifty-seventh street, South of Oxford avenue, Philadelphia. Permit issued. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owner, David Brown, 4800 North Seventh street, Philadelphia. Brick, 4 stories, 42x67 feet, 133x42 feet, slag roof, hardwood and pine floors, electric light, tile work.

Garage, \$5,000. West side Sydenham street, South of Wyoming avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Herbert McCandless, 4710 York road, Philadelphia. Brick, 1 story, 20x90 feet, slag roof, cement floors, electric work.

Garages, \$2,400 total. 1809-11-13-15, 1812-14 Hartel street, Philadelphia. Permit issued. Architect, private plans. Owners, Castor Highland Development Co., Castor avenue and Hartel street. Brick, 1 story, 10x18 feet, slag roof, cement floors.

Apartment House, \$250,000. Northeast Corner Mt. Airy avenue and Emlen street, Philadelphia. Permit issued. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, David Sokolow, 329 Elwood street, Philadelphia. Brick, 4 stories, 120x140 feet and 142x40 feet, slag roof, hardwood and pine floors, electric light, tile work.

Apartment House, \$250,000. North side Grange street, East of Seventeenth street, Philadelphia. Permit issued. Owner, David J. Friedman, 5701 North Seventeenth street, Philadelphia. Brick, 4 stories, 44 feet 8 inches x 61 feet 8 inches, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Apartment House, \$150,000. North side Walnut street, West of Forty-seventh street, Philadelphia. Permit issued. Architect, Barnet Glicker, 2111 North Eighth street, Philadelphia. Owners, Steinman & Lessee, 25 South Fifty-ninth street, Philadelphia. Brick, 4 stories, 100x34 feet, 34x100 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (42), \$127,500. North side Greeby street, West of Charles street, Philadelphia. Permit issued. Architect, private plans. Owners, Boardman & Smith, 1524 Chestnut street, Philadelphia. Brick, 2 stories, 15x24 feet, 11x9 feet, slag roof, hardwood and pine floors, electric light.

Apartment House, \$120,000. Southeast Corner Sixteenth and Conlyn streets, Philadel-

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phia. Permit issued. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owner, Max Chipin, 6746 Old York road, Philadelphia. Brick, 4 stories, irregular size, hot water heat, electric light, hardwood and pine floors.

Apartment House, \$75,000. Northeast Corner Sixteenth and Grange streets, Philadelphia. Permit issued. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owner, Max Chipin, 6746 Old York road, Philadelphia. Brick, 4 stories, 48x38 feet, 40x37 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Gas Station, \$5,000. Northeast Corner Torresdale and Aramingo avenues, Philadelphia. Owners, Standard Oil Co., Public Ledger Building, Philadelphia. Brick, 1 story, 17 feet 9 inches x 18 feet 9 inches. Permit issued.

Apartment House, \$350,000. Southwest Corner Forty-third and Locust streets, Philadelphia. Permit issued. Architect, David Supowitz, 260 South Fifteenth street, Philadelphia. Owners, Surrey Lodge, Inc., 913 Franklin Trust Building, Philadelphia. Brick and stone, 4 stories, 42 feet x irregular, slag roof, hardwood and pine floors, steam heat, electric light, tile work.

Residences (6), \$15,300. North side Faunce street, West of Erdrick street, Philadelphia. Permit issued. Architect, private plans. Owners, Lehan & Cylinder, 4758 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x26 feet, slag roof, pine floors, hot water heat, electric light.

Pump House, \$5,000. North side Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Owners, Gulf Refining Co., Girard Point, Philadelphia. Brick, 1 story, 93x23 feet.

Addition, Ninth and Girard avenue, Philadelphia. Low bidder: J. N. Gill Construction Co., 1500 Chestnut street, Philadelphia. Engineer, A. E. Bump, care of Swift Co., Boston, Mass. Owners, Swift Co., W. Robinson, on premises. Brick, reinforced concrete, steel, 3 stories and basement, 94x151 feet, Barrett specification roof, concrete roof deck, concrete brick floors, hollow tile, safety treads, metal window guards, steam heat, electric light, metal lath, tile work, rolled steel sash and skylights, floor hardener, ornamental iron work, steel partitions, cork insulation, roof insulation, plastering, carpentry and mill work, sheet metal work, coal chute, plumbing.

Miscellaneous Work, Southwest Corner Twenty-fifth and Oakford streets, Philadelphia. Low bidders. Owners, Bureau of Street Cleaning, Department of Public Works, Philadelphia. Furnish and install galvanized iron skylights. John Borden & Brother, 637 North Nineteenth street, Philadelphia, \$1,333. Steel doors, Kinear Manufacturing Co., Seventeenth and Arch streets, \$974. Blower system, John Bowden & Bro., 637 North Nineteenth street, \$973.

Residences (10), \$32,800. South side Lyndord street, north of Magee street, Philadelphia. Permit issued. Architect, private plans. Owners, Forman & Ludwig, 4948 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x29, 12x11 feet, hot water heat, electric light, hardwood and pine floors, slag roof.

Store Building, Northwest corner 52nd and Chestnut streets, Philadelphia. Ready for bids in 30 days. Owner, Monarch Realty Co., care Lionel Friedman, 15th and Locust sts., Philadelphia. Lessee, McCrory Store, Inc., 1107 Broadway, New York City. Size of lot, 48x57 feet, 55x68 feet, irregular.

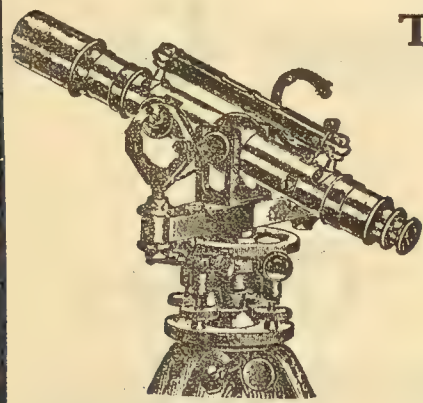
Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Sixty-eighth and Greenway avenue, Philadelphia. Contract awarded Turner Construction Co., 1700 Walnut street, Philadelphia. Architect, Joseph D. Weiss, 119 North Fifty-seventh street, New York. Owners, American Cigar Co., 1111 Fifth avenue, New York. Brick, limestone, steel, 2 stories and basement, 171x89 feet (heating, electric refrigeration reserved), Barrett specification roof, cement floors, hollow tile, elevators, plumbing, tile work, rolled steel sash and skylights, bond, excavation, reinforced concrete, waterproofing, insulation, separate price for sprinkler system.

Mayer Guggenheimer Building (alts.), York road and Tabor road, Philadelphia. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Jewish Hospital, on premises. Brick work, carpentry and mill work, mail chute, demolition, elevator doors, glazing, hardware, hollow tile, steam heat, metal lath, kalamein doors, plastering, linoleum, iron work, marble work, painting, plumbing, steel sash, architectural terra cotta, tile and terrazzo work, ventilation, bond, gypsum roof.

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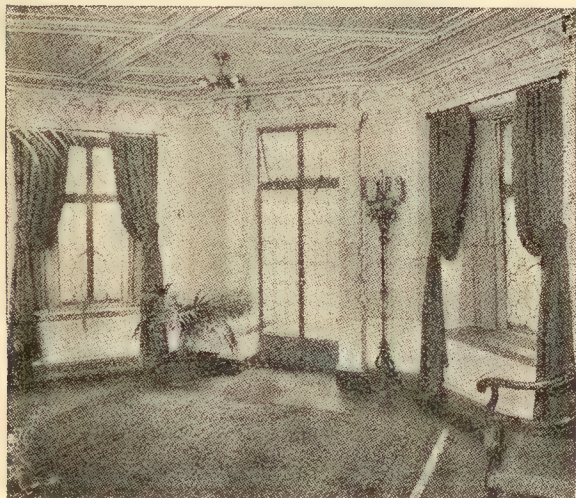
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Westmoreland streets, Philadelphia. Contract awarded Barclay White Co., 1713 Sansom street, Philadelphia. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Sharpless Specialty Co., on premises. Brick, cut stone, steel, cast stone, 2 stories, 30x103 feet, slag roof, cement and linoleum floors, rolled steel skylights, fire doors, ornamental iron work, cast stone, plumbing.

Erection of Guard House, \$2,727. Durham Park, Forty-seventh and Lancaster avenue, Philadelphia. Contract awarded John Devlin, Hancock and Thompson streets. Owners, Department of Public Works, Bureau of City Property, City Hall, Phila. Frame, 1 story, 19x16 ft., excavation, concrete work, carpentry and mill work, iron work, waterproofing, metal window guards, tin roof, metal lath, plastering, painting, glazing.

Swimming Pool, \$7,946. Contract awarded McCormick-Lenham Co., Fortieth and Chestnut street, Philadelphia. City architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Bureau of Recreation, Department of Public Works, 595 City Hall. Steel, iron work, reinforced concrete, excavation, waterproofing, ornamental iron work, bond (plumbing separate bid), 120x40 feet.

Stores (2), 103-13 South Thirty-fourth street, Philadelphia. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia. Work to start at once. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owners, Blair, Inc., 5225 Chestnut street, Philadelphia. Brick, limestone, 1 story and basement, 18x95 feet, slag roof, pine floors, plate glass, hot water heat, electric light, metal sash.

Church, \$15,000. 232-34 East Allegheny avenue, Philadelphia. Contract awarded Stewart Brothers, 2526 North Orkney street, Philadelphia. Architect, private plans. Owners, Bethel Mission, care of George H. Whitehead, 3337 A street, Philadelphia. Stone, brick, limestone, 1 story, basement, balcony, 30x71 feet, slag roof, pine and cement floors (plumbing, heating, electric reserved), metal lath, ornamental iron work.

New Front, 1629 Chestnut street, Philadelphia. Contract awarded F. C. Stockholme, 120 North Camac street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Mansfield Boot Shop, care of architect.

Laundry Building (alts. and add.), Seventieth and Woodland avenue, Philadelphia. Contract awarded John McShain, Inc., 1610 North street, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia.

Owners, St. Vincent's Hospital for Women and Children, Sister Lorretto, on premises. Plumbing, steam heat, electric work, carpentry and mill work, steel sash, brick work, slate roof, cement work, painting, glazing.

Service Station, Fifty-fourth and Spruce streets, Philadelphia. Contract awarded H. G. Walters, 412 North Fortieth street, Philadelphia. Architect, private plans. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Hollow tile, stucco, 16x18 feet, tile roof, electric work, cement.

Store and Apartments (16), West side Ogontz, between Seventy-sixth and Seventy-seventh streets, Philadelphia. Contract awarded Charles M. Greenwood, 3701 North Broad street, Philadelphia. Architect, Edgar A. Wightman, Bankers' Trust Building, Philadelphia. Owner, Oscar M. Steppacker, Broad and Girard avenue, Philadelphia. Brick, 2 stories.

Residence (alts. and add.), 535-37 Allen lane, Philadelphia. Contract awarded R. C. Borthwick, 6511 Woodstock street, Philadelphia. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owners, George Woodward, Inc., North American Building, Philadelphia. Stone, 2½ stories and basement, irregular in size, tile roof, oak and pine floors, metal lath, tile work (plumbing, heating, electric reserved), bond, ornamental iron work.

New Roof and Alterations, Broad and Susquehanna avenue, Philadelphia. Contract awarded McCloskey Co., 1620 Thompson street, Philadelphia. Architect, Paul Monaghan, 1520 Locust street, Philadelphia. Owners, Our Lady of Mercy, Monsignor Joseph A. Whitaker, on premises. Slag roof, plastering, concrete, painting.

Temporary Office Building, \$15,000. West side Thirtieth street, North of Race street, Philadelphia. Contract awarded United Engineers & Constructors, 112 North Broad street, Philadelphia. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., 15 North Thirty-second street, Philadelphia. Metal frame, 1 story, 53x40 feet.

Theatre (alts.), \$15,000. 1019-29 Chestnut street, Philadelphia. Contract awarded Herbert Knapp, 1 West Forty-seventh street, New York. Owners, Shubert Theatre Co., 225 West Forty-fourth street, New York. General alterations.

Store (alts.), \$3,000. 2661 Kensington avenue, Philadelphia. Contract awarded A. Rosenberg, 4835 Darrah street, Philadelphia. Architect, private plans. Owner, Sol Field, 3055 Kensington avenue, Philadelphia. General alterations.

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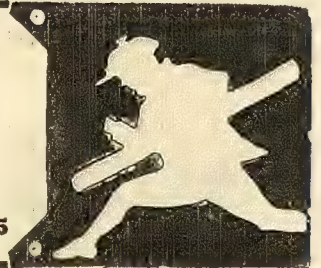
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\$5,400. 4167 Germantown avenue, Philadelphia. Contract awarded M. Glashofer, 529 Morris street, Philadelphia. Architect, private plans. Owner, Samuel Greenstein, on premises. Brick, 2 stories add., 13x21 feet, general alterations.

Garage, \$13,100. 1732-44 Lombard street, Philadelphia. Contract awarded Holbrim & Starhn, 2026-28 Waverly street. Architect, Joseph Leiper, Fifteenth and Locust streets, Philadelphia. Owner, Joseph V. Sweeney, Fifteenth and Locust streets, Philadelphia. Brick, 1 story, 118x78 feet, slag roof, cement floors, electric work.

Office (alts.), \$12,000. 1417-19 Chestnut street, Philadelphia. Contract awarded J. S. Cornell & Sons, 1528 Cherry street, Philadelphia. Architect, James S. Hunter, 30 East Fifty-eighth street, New York City. Owners, National City Co., on premises. General alterations.

Show Room, \$8,000. Southwest Corner Thirty-fourth and Wallace streets, Philadelphia. Contract awarded E. C. Haldeman, 1202 North American Building, Philadelphia. Owner, A. Leibowitz, North American Building, Philadelphia. Brick, 1 story, 50x72 feet.

Manufacturing Building, \$3,500. 1512-14 Snyder avenue, Philadelphia. Contract awarded C. Anziedi, 2024 Tasker street, Philadelphia. Owners, Southwark Ignition Co., on premises. General alterations.

Bank (alts.), \$5,000. Southwest Corner Seventh and Walnut streets, Philadelphia. Contract awarded George A. Fuller Co., Morris Building, Philadelphia. Architects, Howe & Lescage, 414 South Nineteenth street, Philadelphia. Owners, Philadelphia Saving Fund Society, on premises. General alterations.

Shop, \$3,000. 1737-41 Carlton street, Philadelphia. Contract awarded Frank Lucci, 1603 Ellsworth street, Philadelphia. Architect, private plans. Owner, Benjamin Alexander, Land Title Building, Philadelphia. Brick, 1 story, 42x53 feet, slag roof, electric light.

Garage and Laundry, 1255 North Alder street, Philadelphia, \$2,000. Contract awarded J. A. Jeffries, 1608 Stiles street, Philadelphia. Architect, private plans. Owner, William Cousin, 918 North Tenth street, Philadelphia. Brick, 2 stories, 16x70 feet, slag roof, cement floors, electric light.

Apartment House, \$125,000. Southwest Corner Paul and Orthodox streets, Philadelphia. Contract awarded N. S. Ludwig, 4432 Frankford avenue, Philadelphia. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, William Frehofer, Twentieth and Indiana avenue, Philadelphia. Brick, 4

stories, 99x92 feet, 116x126 feet, slag roof, hardwood and pine floors, electric light, tile work.

Residences (4), \$26,000. Ogontz avenue, North of Seventy-sixth street, Philadelphia. Contract awarded C. M. Greenwood, 253 East Penn street, Philadelphia. Owner, Sydney K. Allman, Finance Building, Philadelphia. Brick, 2 stories, 18 feet 6 inches x 27 feet, 15 feet 6 inches x 37 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Bank (alts.), \$7,500. Southwest Corner Fourth and Green streets, Philadelphia. Contract awarded George Kessler Contracting Co., 1733 North Marvine street. Owners, Integrity Trust Co., Sixteenth and Walnut streets, Philadelphia. General alterations.

Miscellaneous Paving and Grading. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Comly street, Torresdale to State road, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$42,647.89. Sparks street, Mascher to Front street, Mack Paving Co., Nicetown lane and C street, \$4,182. Sydenham, Sixty-seventh to point 120 feet North, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$1,591.50. Disston street, Torresdale to Keystone State road, etc., Curtis Brothers, State road, Philadelphia, \$3,436.25. Levick, Torresdale to Cottage, Walker, etc., Curtis Co., State road, Philadelphia, \$11,000.70. Third street, Oxford to Montgomery avenue, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$39,864. Fourth street, Morris to York road, Montgomery Paving Co., Harrison Building, Philadelphia, \$31,951. Twenty-fifth street, Pennsylvania to Fairmount avenue, Municipal Paving Co., Washington Square Building, Philadelphia, \$3,788.10. Sixty-second street, Walnut to Spruce street, Municipal Construction Co., Washington Square Building, Philadelphia, \$17,489.42. Somerset, Hancock to A street, C. G. Centrone, Bailey Building, Philadelphia, \$17,114.30. Twentieth street, Spring Garden to Fairmount avenue, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$7,995.05. Sewers: Allen's lane, Lincoln to Emlen, E. Ventresco, 6016 Ross street, Philadelphia, \$10,868. Dorset, Stenton to Mansfield, Leva Brothers, 104 West Gale street, Philadelphia, \$6,127.50. Little Tacony Creek, Southwest of Lewis, to Frankford Creek, O'Neill Construction Co., 123 East Mermaid lane, \$60,385. Mansfield, Mt. Airy to Gowen, O'Neill Construction Co., 123 East Mermaid lane, Philadelphia, \$13,099.98. Paving: City Line avenue, Monument road to Bridge, etc., Yet-

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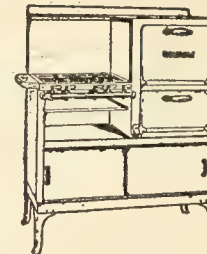
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man & Garafola, Real Estate Trust Building, Philadelphia, \$118,525. Orthodox, Bath to Carbon, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$21,649.17. Tasker street, Tenth to Twelfth, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$11,840.55. Fabricated steel for Spring Garden Bridge No. 17, George F. Dobbins, 1020 South Forty-seventh street, Philadelphia, \$4,220.

Hospital and Hospital (alts. and add.), \$150,000. Northeast corner Fifth and Wilder streets, Philadelphia. Contract awarded Wark Company, 1600 Walnut street, Philadelphia. Architects, Magaziner, Eberhard & Harris, Northwest corner Seventeenth and Walnut streets, Philadelphia. Owners, Mt. Sinai Hospital, Fifth and Reed streets, Philadelphia. Concrete, steel, 5 stories, 40x69 feet, 1 story addition, 60x32 feet, general alterations.

Pennsylvania Construction News

Grading, Widening and Rebuilding. Cheltenham road, Cresheim to Willow Grove avenue, Springfield Township, Pa. Low bidder: Aechione Contracting Co., 1607 McKean st., Philadelphia, \$16,569.40. Engineer, Charles F. Puff, Jr., 410 York road, Jenkintown, Pa. Owner, Board of Commissioners, Springfield Township. F. L. Harner, Erdenheim, Pa.

Church (add.), Wernersville, Pa. Architect taking bids due August 6th. Architect, C. W. Bolton & Son, Schaff Building, Philadelphia. Owner, St. John's Reformed Church, Rev. Ralph O. Starr, Wernersville, Pa. Stone, slate roof.

Residence and Garage, Susquehanna avenue, Rydal, Pa. Architect taking bids due August 8th. Architect, George A. Robbins, Otis Building, Philadelphia. Owner, Wayne Herkness, Packard Building, Philadelphia. Stone, 2½ stories, 60x80 feet, irregular, slate roof, oak and pine floors, flagstone, vapor heat, electric light, tile and marble work,

steel sash.

Residence and Garage (alts. and add.), Bluebell, Pa. (Skiptack pike), Montgomery County. Architect taking bids due August 8th. Architect, Geo. A. Robbins, Otis Bldg., Philadelphia. Owner, Gerald H. Deacon, Bluebell, Montgomery County, Pa. Stone, cinder block, 2½ stories, 32x22 feet, hot water heat, electric light, tile work, tin roof, oak and yellow pine floors.

Community Laundry, Drexel Hill, Pa. Owner will build. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owner, George Robinson, Drexel Hill, Pa. Brick, 2 stories, 80x120 feet, slag roof, cement floors, electric light.

Women's Building, Broad Meadows Farm, Birmingham and Thornbury Townships, Pa. Architect ready for bids. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owner, Delaware County Commissioner, Geo. T. Wades, Media, Pa. Deposit \$10 refunded. General certified check \$4,000. Plumbing and heating, \$500. Electric certified check \$250.

Miscellaneous Repairs, Chester, Pa. Owner taking bids due August 12th, 7 P. M., S. T. Owner, City of Chester, C. E. Sanderson, Chester, Pa. Repairs to Smedley Junior High and Starr School.

Paving, Sharon Hill, Pa. Owner taking bids due August 5th, 7 P. M., S. T. Certified check \$1,000. Engineer, Damon & Foster, Sharon Hill, Pa. Owner, Borough of Sharon Hill, H. Anschutz, Sharon Hill, Pa.

Paving, Upper Darby, Pa. Owner taking bids due August 6th, 8 P. M., D. S. T. Engineer, Damon & Foster, Sharon Hill, Pa. Owner, Borough of Upper Darby, J. Barr Stauffer, Ch., Upper Darby, Pa. Certified check \$100. Address all bids to T. C. Kelly, Secty.

Court House, Allentown, Pa. Work contemplated. Owners, Lehigh County Commissioners, H. C. Blanck, Chief Clerk, Allentown, Pa.

Apartment House, West Chester, Pa. Preliminary plans in progress. Architect, William J. Corcoran, West Chester, Pa. Owner, name withheld. Brick, 3 stories.

Group of Buildings, \$685,000. Pennhurst, Chester County, Pa. Plans in progress. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Pennhurst State School, Pennhurst, Chester County, Pa., J. Hibbs Buckman, President, Plaza Building, Philadelphia. Brick, Colonial, 2½ stories, 60x105 feet each, slate roof, steam heat, 2 cottages, 1 employees' building are first of a group of 10 buildings.

School, Plymouth, Pa. Plans in progress. Architect, R. M. Herr, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Plymouth Township School Board, N. Rowland, West Nanticoke, Pa. Brick, 2 stories, 2 rooms, slag roof, pine floors, heating extension, electric light.

Store and Apartments (4), Wayne, Pa. Plans in progress. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Harry Fried, Wayne, Pa. Brick, cut stone, 2 stories, 18x55 feet, slag roof, hardwood floors, pine floors, central steam heat, electric light.

Residence and Garage (alts.), Whitemarsh Valley, Pa. Plans in progress. Architect, F. A. Hays, 2017 Spruce street, Philadelphia. Owner, Arthur V. Howe, 521 East Mermaid lane, Philadelphia. Stone, 3 stories, general alterations and additions.

Cottage and Residence (alts. and add.), Abrams lane, Villa Nova, Pa. Revised plans in progress. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, R. L. Montgomery, on premises. Frame, stone, 2½ stories and basement, shingle roof, oak and pine floors, demolition, brick work, carpentry and mill work, hot water heat, electric light, tile work, bond, ornamental iron work, slate roof.

Residences (20), Aubrey road and George lane, Ardmore, Pa. Plans in progress. Owner will build in fall. Architect, private plans. Owner, W. H. Rickabaugh, 6 Athens avenue, Ardmore, Pa. Brick, clapboard, stone, 2½ stories, 16x38 feet each, shingle roof, hardwood floors, hot water heat, electric light, tile work, garage, 1 story, 10x20 feet.

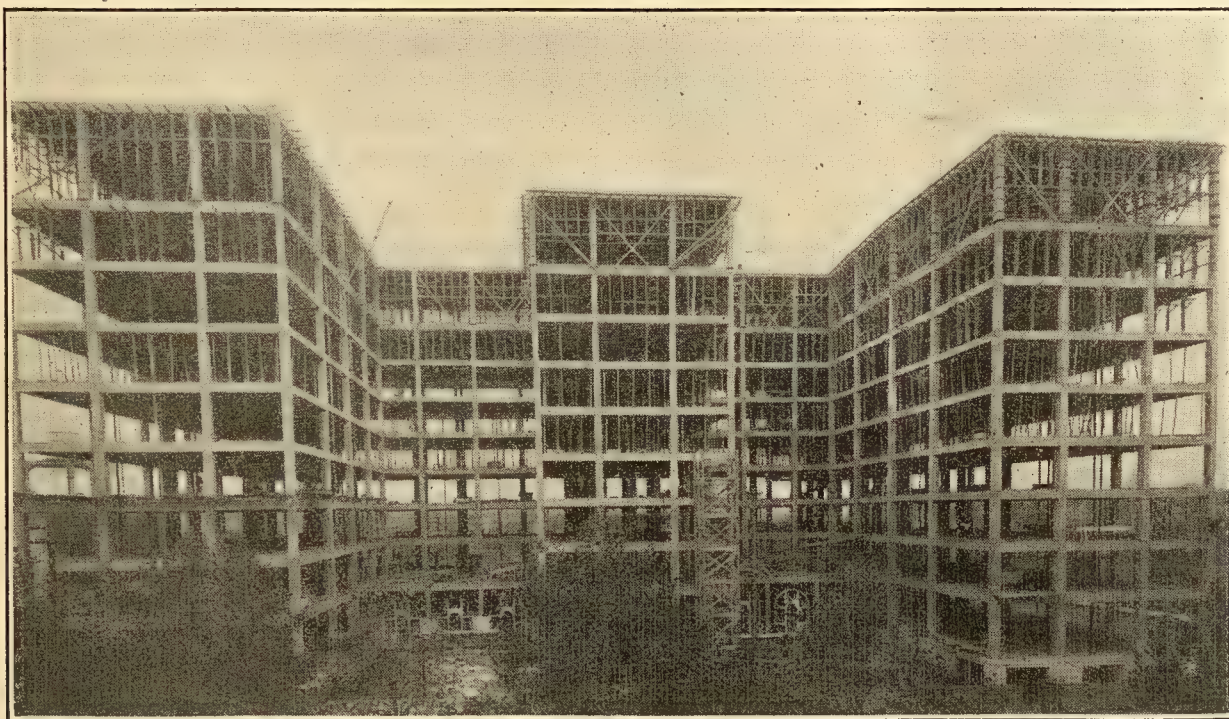
Residence (alts. and add.), Rosemont, Pa. Plans in progress. Owner will build. Architect, R. B. Okie, 306 South Smedley street, Philadelphia. Owner, A. O. Leighton, Rosemont, Pa.

Residence, Allentown, Pa. Plans in progress. Architect will take bids in one week. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, R. D. Arnold, 639 North Lumber street, Allentown, Pa. Brick, 2½ stories, 29x50 feet, tile roof, hardwood floors, steam heat, electric light, tile work, steel casement windows.

Apartment House, Country Line road opposite Bryn Mawr Hospital, Bryn Mawr, Pa. Architect ready for general bids. Architect, John Charles Norton, 336 Lenox road, Brookline, Pa. Owner, Andrew Marmer, Bryn Mawr, Pa. Brick, steel, concrete, 2 stories, 40x69 feet, built-up asbestos roof, hardwood floors, steam heat, electric light, oil burner, tile work, hollow metal skylights and sash, refrigeration, laundry.

Hospital, Easton, Pa. Ready for new bids August 15th. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Easton Hospital, H. Lehr, 1200 Butler street, Easton, Pa. Brick, reinforced concrete, steel, built-up asphalt roof, cement work, electric work.

Store and Apartment (alts. and add.), Newtown, Bucks County, Pa. Owner will build. Plans completed. Architects, Lackey & Hettle, Camden, N. J. Owner, Robert LaRue, Wrightstown, Pa. Brick, 3 stories and basement, 32x64 feet, changing into 12 apartments, tin roof, composition and linoleum floors, 2 closet beds, kitchen equipment, incinerators, refrigeration, steam heat, oil



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Apartment House (37 apartments), \$150,000. Aronimink, Delaware County, Pa. Architects taking sub-bids due as soon as possible. Architects, William Paley and Associates, 4700 Springfield avenue, Philadelphia. Owner, name withheld. Brick, cast stone, 3 stories, irregular in size, slag roof, hardwood floors, 1 elevator, vapor heat, oil burner, electric light, tile and marble work.

Bank, Wayne, Pa. Ready for bids in two weeks. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Wayne Title & Trust Co., Wayne, Pa. Stone, steel, concrete, 2 stories, 84x84 feet.

Residence (alts. and add.), Bluebell, Pa. Ready for bids in a week. Architect, George A. Robbins, Otis Building, Philadelphia. Owner, Gerald H. Deacon, Bluebell, Pa. Stone, concrete block, 2 stories, irregular in size, tin roof, hardwood floors, hot water heat, electric light, tile work.

Residences (10), Poplar terrace, Bridgeport, Pa. Owners will build. Architect, private plans. Owners, Bridgeport Realty Co., Bridgeport, Pa. Brick, stone, stucco, 2½ stories, hot water heat, electric light, tile work, hardwood floors.

Residences and Garages (3), Brookline, Pa. Owner will build and is ready for sub-bids. Architect and owner, J. Charles Norton, 336 Lenox avenue, Brookline, Pa. Stone, brick, clapboard, 2½ stories, 24x38 feet, wing, 2 stories, 20x24 feet, slag and shingle roof, tile roof, hardwood, linoleum floors, hot water heat, electric light, tile work.

Church, Scranton, Pa. Architect will be ready for bids in one week. Architect, Albert J. Ward, County Bank Building, Scranton, Pa. Owners, Ukrannational Church, Scranton, Pa. Brick, stone, steel, 40x90 feet, slate roof, yellow pine floors, electric light.

Church, Scranton, Pa. Architect will be ready for bids soon. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, St. Peter's Lutheran Church, care of architect. Brick, stone, steel, 1 story and basement, 37x105 feet, 30x70 feet, steam heat, electric light, tile, marble, ornamental iron, shingle roof, architectural terra cotta or cast stone.

Office Building, Scranton, Pa. Architects will be ready for bids this week. Architects, E. H. Davis and George M. D. Lewis, Board of Trade Building, Scranton, Pa. Owners, Scranton Electric Co., Board of Trade Building, Scranton, Pa. General interior alterations.

Residence and Garages (50), Greenwood avenue near Limekiln pike, Wyncote, Pa. Owner will build. First unit of 10 started. Architect, private plans. Owner, Albert E. Dunlap, Jenkintown Manor. Stone, 2½ stories, 26x39 feet, 20x22 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Athletic Field and Stadium, Greenwood avenue, Walnut street, West avenue and Highland avenue, Jenkintown, Pa. Owners taking bids due August 12th, 7 P. M. (Eastern Standard Time). Architects, Heacock & Hokanson, 1201 Chestnut street, Philadelphia. Owners, Jenkintown School District, Guy M. Graybill, Jenkintown, Pa. Grading, tracks, underdraining, sodding, seeding, retaining wall and stadium. Deposit, \$25, refunded. Deposit, \$5, refunded.

School (alts.), Chester, Pa. Owners taking bids due August 12th, 7 P. M. (Eastern Standard Time). Owners, Board of Directors, School Board, C. E. Sanderson, Chester, Pa. Repairs to heating plants in schools of various districts, alterations to certain rooms in G. E. Smedley Junior High School, lumber to be used in general repair department.

School Group (11), Hanover Township, Pa. Owners taking bids due August 7th. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Hanover Township School Board, H. J. Williams, 23 Ridge street, Ashley, Pa. General repairs, heating, plumbing and electric work.

School (alts.), Larksville, Pa. Owners taking bids due August 6th. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, School District of Larksville, Felix W. Bolowicz, Secretary, Larksville, Pa. General alterations.

Sunday School (add. to Church), Pottstown, Pa. Architect taking bids on revised plans, due August 1st. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Engineer, A. S. Kepner, Pottstown, Pa. Owners, Emmanuel Lutheran Church, Rev. Irwin B. Kurtz, 239 Chestnut street, Pottstown, Pa. Brick, reinforced concrete, terra cotta, brownstone, 1 story and balcony and basement, 70x100 feet, composition roof, electric light, vapor heat.

Residence and Garage and Stable, Chester Valley, Chester County, Pa. Architect taking bids due August 5th. Architect, Louis S. Adams, Radnor, Pa. Owner, E. H. Tenbroeck, Chester Valley, Chester County, Pa. Stone, 2½ stories, 65 feet 3 inches x 25 feet 6 inches, 20x38 feet, shingle and tin roof, linoleum tile, linoleum, spruce, cement, pine floors, gypsum plaster board, electric work, tile and marble work (heating, plumbing reserved).

Farm Show Building, Eleventh and Maclay streets, Harrisburg, Pa. Owners taking bids due August 23rd at 2 P. M. (note date). Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, State of Pennsylvania, Frank St. Clair, Bureau of Engi-

neering, Department of Property and Supplies, Harrisburg, Pa. Fireproof, 1 and 2 stories, 700x850 feet, composition and copper roof. Note correction.

Residence and Garage, Haverford, Pa. Architects taking bids due August 3rd. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Mrs. William White, Haverford, Pa.

Repaving, Essington avenue, Eddystone, Pa. Owners taking bids due August 6th, 7 P. M. Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Eddystone, Walter E. Eckel, Eddystone, Pa. Certified check, \$500.

Street Paving, Berlin, N. J. Owners taking bids due August 1st, 8 P. M. (Daylight Saving Time). Owners, Camden County Park Commissioners, Z. M. Castor, 807 Wilson Building, Camden, N. J. Deposit, \$5, refunded. Certified check, 10 per cent. Approximately 750 cubic yards unclassified excavation, 1,000 lineal feet 8-inch curb, 600 lineal feet 8-inch radius curbs and gutters, 3,000 square yards 2-inch sheet asphalt paving, 1 No. 2 city inlet.

Miscellaneous Work, Darby, Pa. Owners taking bids due August 6th. Owners, School District, Harold B. Talbott, 211 South Sixth street, Darby, Pa. Architect, private plans. Removal of present heater and complete installation of new system in new building, Tenth and Ridge avenue, Darby, Pa. Plans from Walter R. Dothett, Superintendent, Darby, Pa. Phone Darby 1809.

Paving, Lower Chichester Township, Pa. Owners taking bids due August 19th, 7 P. M. Engineer, C. F. Baker, Crozer Building, Chester, Pa. Owners, Lower Chichester Township, Louis E. Pierce, Box 202, Marcus Hook, Pa. Deposit, \$10. Plans from engineer any day except Saturday between 9 A. M. and 5 P. M.

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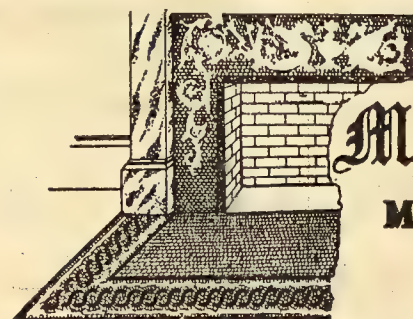
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School Supplies (second class), Upper Darby Township, Pa. Owners taking bids due August 12th. Owners, School District of Upper Darby Township, J. Milton Lutz, Upper Darby, Pa.

Junior High School, near Swedeland, Pa. Low bidders. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Upper Merion Township, A. Hays Hill, Port Kennedy. Brick, steel, 216x107 feet. Stoneback & Nace, Quakertown, Pa., \$155,290; No. 1, deduct \$1,750; No. 2, deduct \$2,630; No. 3, add \$2,255; No. 4, add \$5,634; No. 5, deduct \$9,776; No. 6, deduct \$8,866. George H. Evans, Inc., 1416 Vine street, Philadelphia, \$159,890; No. 1, deduct \$1,681; No. 2, deduct \$3,025; No. 3, add \$2,115; No. 4, add \$5,897; No. 5, deduct \$11,971; No. 6, deduct \$10,271.

Pennsylvania Contracts Awarded

Residence, Limekiln pike near Tennis avenue, Montgomery County, Pa. Contract awarded Amos W. Walton, Ambler, Pa. Architects, Willing, Sims & Talbutt, 126 South 18th street, Philadelphia. Owner, Clara M. Feichter, Germantown Manor, Philadelphia.

Misc. Repairs, Chester, Pa. (Schools). Contracts awarded. Owner, Board of Education, C. E. Sanderson, Chester, Pa. Interior Painting, Chester High and Pary of Henry and Clayton School to Notnagle & Rose, Chester, Pa. Part of Franklin Street School: B. D. Wright, Chester, Pa. Part of Franklin Street School: L. B. Loughhead, Chester, Pa. Hardware: Chester Hardware Co., Chester, Pa.

Fire House (alts.), Conshohocken, Pa. Contract awarded Philip Federici, Conshohocken, Pa., \$3,600. Owner, Washington Fire Co., William Dewees, Conshohocken, Pa. New front, steel, cast granite trim.

Gymnasium, Free and DuPont streets, Ridley Park, Pa. Contracts awarded. Architect, H. W. Newberg, Ridley Park, Pa. Owners, School District of Ridley Park, Dr. F. Bonnett, Ridley Park, Pa. Brick, steel (plumbing,

heating, electric separate), maple floors. General, Jones-Redditt Co., McClatchey Building, Upper Darby, \$39,350; electric, Walter Lyle, Brookline, Pa., \$3,162; plumbing, Frank Simmons, Moore, Delaware County, Pa., \$2,875; heating, held up.

School Building, South Langhorne, Bucks County, Pa. Contracts awarded. Architect, Henry L. Reinhold, Jr., 10 South Eighteenth street, Philadelphia. Owners, School District, South Langhorne, Bucks County, Pa. Brick, cast stone, steel, 1 story and basement, 124x60 feet (plumbing, heating, electric separate), slag roof, maple and cement floors, metal lath, bond, steel partition. General, Chancellor Day, 3504 Rhawn street, Philadelphia, \$25,550; electric, Frederick & Van Sant, South Langhorne, Pa.; heating, Crisman & Quilman, Norristown, Pa., \$4,395; plumbing, Fred Wackenhut, 2416 Frankford avenue, \$1,775.

Apartment House, Montgomery avenue, Bryn Mawr, Pa. Contract awarded Artercraft Construction Co., Widener Building, Philadelphia. Work to start at once. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, Ellis Jackson, care of Robert J. Darrah, Widener Building, Philadelphia. Brick, steel, 3 stories and basement, irregular, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work.

Residence, Rydal, Pa. Contract awarded Harry Specht, Willow Grove, Pa. Architects, Wigham & Cochrane, care of owner. Owner, Oscar Fow, Jenkintown, Pa. Stone, steel, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, electric light, hot water heat, metal lath, tile work, bond, ornamental iron work. (Note owner's name.)

Residence and Garage, Jenkintown, Pa. Contract awarded W. D. Lukens, North Wales, Pa. Architects, Wigham & Cochrane, care of builders. Owner, J. Henry Geissler, 4939 Sansom street, Philadelphia. Stone, steel, 2½ stories and basement, 30x80 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, casement windows. (Note owner's name.)

Residence (alts.), Spring City, Pa. Contract awarded Frank Walley, Spring City, Pa. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Owner, Robert B. Schindler, care of Schuylkill Valley Mills, Spring City, Pa. Interior alterations, new porches.

Residence (alts. and add.), 227 Washington lane, below Wyncote road, Montgomery County, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, Mrs. John Woodall, on premises. Stone, 6x15 feet, slate roof, oak and pine floors, electric light, heating extension.

New Church and Alterations to Sunday School, Harmony, Pa. Contract awarded E. Z. Pepper, Wilkinsburg, Pa. Architects, Charles W. Bolton & Son, 1505 Race street, Philadelphia. Owners, Grace Reformed Congregation, G. E. Gallagher, Chairman of Building Committee, Harmony, Pa. Brick, Indiana limestone, 68x40 feet, irregular, slag roof, wood and cement floors, steam heat, electric light, general alterations to Sunday School.

Schools (2), Chain Street, Hartranft Street, Norristown, Pa. Contract awarded George Thomas, Norristown, Pa., \$4,114.25. Architect, E. Lane Crawford, 509 Swede street, Norristown, Pa. Owners, School Board of Norristown, H. R. Kratz, Norristown, Pa. Sundry interior and exterior repairs, including fire escapes, fire doors and partitions.

Residence, Gilbert Property, Rydal, Pa. Contract awarded D. W. Sperry, Jefferson Building, Philadelphia. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, Wayne Herkness, Packard Building, Philadelphia. Stone, steel, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work.

High School, Collingdale, Pa. Contracts awarded. Architect, Clarence Brazier, Crozer Building, Chester, Pa. Owners, School Board, W. H. Milbourne, Collingdale, Pa. Brick, reinforced concrete, steel, 2 stories and basement, 120x56 feet. General to L. Rosengarten, Otis Building, Philadelphia, \$70,303. Plumbing, Fred G. Wackenhut, 2416 Frankford avenue, \$6,575. Heating, Fred G. Wackenhut, 2416 Frankford avenue, \$6,910. Electric, Jesse C. Marshall, Moore, Pa., \$5,870.

Cottage (alts. and add.), Mill road, Meadowbrook, Pa. Contract awarded Roy Randall, Jenkintown, Pa. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owners, J. Smiley and Alice Herkness, on premises. Stone, 1 story, shingle roof, pine floors, kitchen, porch addition.

Church (alts.), Norwood, Pa. Contract awarded W. R. Dougherty, 1608 Sansom street, Philadelphia. Architects, H. D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Gabriel's Roman Catholic Church, Rev. Joseph P. Smith, Norwood, Pa. Carpentry and mill work, general interior alterations.

Alterations and Additions, Washington avenue and Spruce street, Scranton, Pa. Contract awarded Stofflet & Tillotson, Wesley Building, Philadelphia. Architects, E. H. Davis & George M. D. Lewis, Board of Trade Building, Scranton, Pa. Owner, John A. Mears Estate, Scranton, Pa. Steel work, slag roof, concrete floors, gypsum work, carpentry and mill work, brick work, travertine work, tile and marble work.

Residence, Morris Heights, Pa. Contract awarded Hiram Hughes, 1147 Indiana avenue, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, Walter Griggs, care of architect. Frame, 2½ stories, 34x34 feet, wood shingle roof, hardwood floors, hot water heat, electric light, tile work.

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Repairs to Bridge No. 122, \$2,611. Whiskey Run Bridge, Springfield Township, Pa. Contract awarded Suburban Construction Co., 27 East Lancaster avenue, Ardmore, Pa. Engineer, G. C. Wright, Media, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Removal and replacing present brick roadway, curbs, gutters, etc.

Store (add.), 406 West Marshall street, Norristown, Pa. Contract awarded R. F. Houghton, Norristown, Pa. Owner, Benjamin Steinberg, on premises. General alterations and addition.

Bank, Luzerne, Pa. Contract awarded Frank Scarlett, Kingston, Pa. Architect, C. J. Schmidt, 198 North Main street, Wilkes-Barre, Pa. Owners, Merchants' & Miners' Bank of Luzerne, 86 Main street, Luzerne, Pa. Stone, bronze work, general interior and exterior alterations.

School, 695 North Main street, Wilkes-Barre, Pa. Contract awarded E. J. Donahoe, 16 Newport street, Ashley, Pa. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, St. Mary's Greek Catholic Church, Rev. Nicholas Chopey, 695 North Main street, Wilkes-Barre, Pa. Brick, steel, 2 stories and basement, 61x124 feet, built-up roof, yellow pine floors, hollow tile, roof ventilators, dampproofing, steel partitions, iron stairs, fire doors, steel sash (heating, plumbing and electric separate).

Grade School, Wilkes-Barre Township, Pa. Contract awarded Tabone & Barbera, Pittston, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Township School Board, Mr. Shimdel, Secretary, Georgetown, Pa. Brick, veneer, steel, 2 stories, 58x54 feet, Barrett roof, maple floors, steam heat, electric light.

Store Front (alts.), South Main street, Wilkes-Barre, Pa. Contract awarded William Schmalzriedt, 103 Old River road, Wilkes-Barre, Pa. Architect, W. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, I. Engel, 16 East Jackson street, Wilkes-Barre, Pa. Stone, tile, marble, architectural terra cotta.

Residence, Kingston, Pa. Contract awarded Julian Sosmowski, Edwardsville, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, D. B. Davis, Kingston, Pa. Frame, 2½ stories, 26x40 feet, shingle roof, hardwood floors, Warren Webster heat, electric light, tile work.

Sewer Work, Second Street Intercepting Sewer, Chester, Pa. Contracts awarded. Engineers, City Engineer and R. C. Wheeler, 36 State street, Albany, N. Y. Owners, City of Chester, G. J. Hunter, Superintendent, Chester, Pa. Contract No. 6, West End Intercepting Sewer to Pennsylvania Paving Co., Chester, Pa., \$133,407.75. Contract No. 11, Inverted Syphon to Slack & Slack, Inc., 1105 East 222nd street, New York, \$37,114.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Erie County, R-85, 86, Springfield Township. One course reinforced concrete. Clements-Orr Co., Mt. Gilead, Ohio, \$138,141.15.

Washington County, R-113, Sec. 8, R-268, Sec. 8A, East Pike Run Township, Centerville Borough, Dorsey Construction Co., Findlay, Ohio, \$191,559.30.

McKean County, R-211, Spur A-6223, Otto Township. One course reinforced concrete. D. L. Dennis, Peckville, Pa., \$12,805.50. Allegheny County, R-246, S-4, Pine and Marshall Townships. One course reinforced concrete. D. W. Challis & Son, Sewickley, Pa., \$255,364.40.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Fayette County, R-50, Sec. 1, North and South Union

Townships. One course reinforced concrete. Georges Construction Co., Inc., Uniontown, Pa., \$157,151.44. Tioga County, R-478, Sec. 1, Clymer-Westfield Townships. One course reinforced concrete. Sherman & Rhodes, Glenville, Pa., \$133,405.34. Fayette Co., R-50, Sec. 1A, North and South Union Townships. Grading and drainage. Williamson Construction Co., Turtle Creek, Pa., \$142,962.55.

New Jersey Construction News

Cathedral, \$1,000,000. Probable site, Civic Center, N. J. Work contemplated. Owner, Scottish Rite Masons, Seventh and Cooper streets, Camden, N. J.

Church, Medford, N. J. Architect taking revised bids due August 1st at noon. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owner, Medford Church, Medford, N. J. Demolition, excavation, cement work, alterations for slag block, structural steel, carpentry, mill work, electric work.

School No. 2 (add.), Clements Bridge road and Gloucester pike, Barrington, N. J. Architect, John L. Coneys, Drexel Bldg., Philadelphia. Owner, School Board of Barrington, Edw. M. Oliver, Barrington, N. J. General: J. M. Yardley, 1700 Walnut street, Philadelphia, \$18,329; Hood & Gross, 1535 Chestnut street, Philadelphia, \$19,919. Plumbing: Harry Knecht, Collingswood, N. J. Heating: Harry Knecht, Collingswood, N. J. Electric: Fredk. Broehm, Collingswood, N. J.

Water Works, Audubon, N. J. Work contemplated. Owners, Borough Commissioners, Claude Simon, Audubon, N. J.

Apartment House, Thirty-fourth and Federal streets, Camden, N. J. Plans in progress. Too early for details. Architect, Roy G. Pratt, 1420 Walnut street, Philadelphia. Owner, care of architect. Brick, steel, concrete, 3 stories.

Apartment House (4-family), 6010 Perry street, Trenton, N. J. Plans in progress. Architect, Louis Kaplan, 33 West State street, Trenton, N. J. Owner, Milton Mirkin, 729 Greenwood avenue, Trenton, N. J. Semi-fireproof, 3 stories, 35x60 feet, slate roof, hardwood floors, vapor heat, electric light, oil burner, tile work.

Office (add.), Trenton, N. J. Plans in progress. Architect, Louis Kaplan, 33 West State street, Trenton, N. J. Owners, Puritan Rubber Co., Perrine avenue, Trenton, N. J. Brick, steel, frame, 2 stories, 40x70 feet, slag and tin roof, wood deck, maple floors, rubber tile, roof ventilators, fire doors, skylights, steel sash, tile, heating extension, electric work.

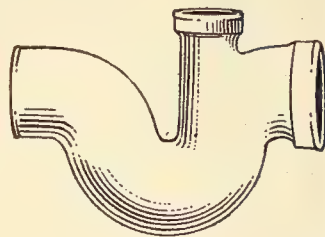
Church, Somerdale, Camden County, N. J. Plans in progress. Architects, Laekey & Hettle, Camden, N. J. Owners, First Presbyterian Church, Somerdale, Camden County, N. J. Cinder block, stucco, 1 story and basement, 34x80 feet, slate roof, pine floors, steam heat, electric light, steel sash and trusses.

Mill Building, Office Building and Shop, Phillipsburg, N. J. Plans in progress. Owners will probably take sub-bids. Architect, private plans. Owners, Ingersoll-Rand Co., A. E. Peters, Phillipsburg, N. J. Brick, 1 and 2 stories.

Apartment House, Pennlyn Place, Ocean City, N. J. Revised plans in progress. Owner will sublet in spring, 1930. Architect, private plans. Owner, Ralph Emmerson Fields, 5310 North Camac street, Philadelphia. Brick, frame, 3 stories, 21x60 feet.

Tuberculosis Hospital (add.), Allenwood, N. J. Plans completed. Owners ready for bids. Engineer, Leon Cubberley, 133 Morris avenue, Long Branch, N. J. Owners, Board of Chosen Freeholders, Monmouth County, N. J. 21 beds for men, store room, 2 locker rooms, medical rooms, bath room.

Residences (26), Garages (2), Sayres avenue and Norris street, Camden, N. J. Plans nearly completed. Owner will take sub-bids.



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Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Joseph Brindisi, care of architect. Brick, concrete block, 2 stories, 18x30 feet, slag roof, pine floors, hot water heat, electric light.

Church, Medford, N. J. Architect will be ready for bids in one week. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owners, Medford Church, Medford, N. J. Demolition, excavation, stone work, cement work, brick chimney.

Portable School, Chelsea Heights and Venice Park, Atlantic City, N. J. Owners will be ready for bids at end of week. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education of Atlantic City, Harry H. Young, Secretary, Ohio and Pacific avenues, Atlantic City, N. J. Timber, asbestos board and brick, 1 story, 2 rooms, asbestos or slate roof, pine floors, roof ventilators (heating, plumbing and electric separate).

Residence, Chelsea, N. J. Architect will take sub-bids. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, H. W. Lynch, Preston Apartments, Chelsea, N. J. Brick, 2½ stories, 28x45 feet, tile roof, hardwood floors, hot water heat, electric light, oil burner, tile work.

Hotel, 135 South North Carolina avenue, Atlantic City, N. J. Architect taking bids due August 3rd. Architect, C. S. Schaef, 11 South Sixteenth street, Philadelphia. Owner, Godfrey S. Mahn, 1343 Chestnut street, Philadelphia. Brick, steel, reinforced concrete, 14 stories, 75x150 feet, asphalt composition roof, concrete roof deck, cement and linoleum floors, hollow tile, 3 elevators, roof ventilators, metal window guards, caulking, cast stone, steel partitions, incinerators, kitchen equipment, vapor heat, electric light, oil burner, metal lath, tile, marble and terrazzo work, rolled steel and hollow metal sash, fire, kalamein and hollow metal doors, violet ray glass, iron stairs, ornamental iron work, brass pipe, wrought iron pipe, cinder concrete block.

Residence, Cranbury, N. J. Architect taking bids due no set date. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owner, A. L. Burrough, Cranbury, N. J. Brick, 2½ stories, 58x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Borough Hall (alts.), Pennington, N. J. Architect taking revised bids due August 6th. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owners, Borough of Pennington, care of architect. Stucco, 2½ stories, 36x78 feet, slate roof, hardwood and composition floors, general alterations, overhead doors, partitions, cast stone, blue stone.

Mission Chapel, Waterford, N. J. Architect taking bids due August 1st. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Our Lady of Mt. Carmel, Rev. J. J. Lucitt, on premises. Frame, steel, 1 story, 65x33 feet, slag and shingle roof, pine floors, hot air heat, electric light, plumbing, painting, glazing, celotex, ornamental iron work.

Schools (2), Vine Street School, Irving Street School, Bridgeton, N. J. Low bidders. Architects, Edwards & Green, 548 Federal street, Camden, N. J.; Walter Custer, Bridgeton, N. J. Owners, Board of Education, H. Ryden Rice, Secretary, City Hall, Bridgeton, N. J. Reinforced concrete, brick, steel, limestone. Vine Street School—Wills Bill Co., 1502 Locust street, Philadelphia, \$44,944; Costanzo Brothers, 1338 Sheridan avenue, Camden, N. J., \$46,000; heating, Harry Knecht, Collingswood, N. J., \$11,600; plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, \$4,927; electric, Dalton Electric Shop, Millville, N. J., \$1,395. Irving Street School—Costanzo Brothers, 1339 Sheridan avenue, Camden, N. J., \$36,226; Wills Bill Co., 1502 Locust street, Philadelphia, \$36,736; heating, Baldwin Ventilating Co., 1509 Arch street, Philadelphia, \$6,340; plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, \$3,395; electric, Dalton Elec. Shop, Millville, N. J., \$875.

School and Assembly Building, New Jersey State Home for Girls, Trenton, N. J. Low bidders. William C. Ehret, Trenton Trust Building, Trenton, N. J., \$74,987; plumbing, Burns, Lane & Richardson, New Brunswick, N. J., \$4,274; heating, Hadley Contracting Co., Fox Building, Philadelphia, \$7,290; electric, Peter Peifer, 128 West Eighth street, Trenton, N. J., \$2,991. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, limestone, reinforced concrete, 2 stories and basement, 133x57 feet, slate roof, wood, cement and pine floors, linoleum floors, bronze thresholds, hardware, waterproofing, ornamental iron, iron stairs, bond, tile, marble, metal lath.

Bachelor Officers' Quarters (4-family apartments), Fort Monmouth, N. J. Low bidder: George H. Evans, Inc., 1416 Vine street, Philadelphia. Architect, private plans. Owners, Office of the Constructing Quartermaster, Fort Monmouth, N. J.

Bridge, \$400,000. Dorset street, over Inside Thorofare, Ventnor, N. J. Owners will be ready for bids August 1st. Engineer, A. H. Nelson, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic County Board of Freeholders, F. F. Doughty, Director, Guarantee Trust Building, Atlantic City, N. J.

Bridge, Ocean avenue, Manasquan, N. J. Owners taking bids due August 7th. Engineer, George K. Allen, Freehold, N. J. Owners, Board of Freeholder, Monmouth County, N. J. 2 miles of paving, Bellmawr-Glenolden-Farmingdale road.

Pavement, Route 42, Sec. 2, from Chew's

Landing to Camden-Gloucester County Line, N. J. Owners taking bids due August 8th at 11 A. M. (Daylight Saving Time). Owners, Board of Chosen Freeholders of Camden County, Court House, Camden, N. J. Engineer, B. M. Schumucker, County Engineer, Court House, Camden, N. J. 9-inch reinforced concrete pavement.

Bridges (2), Route 39, Sec. 7, over Springer's Creek and Muskingum Creek, Burlington County, N. J. Owners taking bids due August 12th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation excavation, concrete, reinforcing steel, wooden piles. Certified check, 10 per cent. Deposit, \$10.

Viaduct, Route 25 (Rt. 1 Ext.), Sec. 18 and 19, Contract 26, Three Crossings of the Elizabeth River, N. J. Owners taking bids due August 12th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Paving, concrete, steel, granite block, asphalt, bituminous concrete pavements and incidental work. Certified check, 10 per cent. Deposit, \$10.

Road Work, New Jersey. Owners taking bids due August 12th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 29, Sec. 4, Mountainside to Somerset County Line, Union and Somerset Counties. Unclassified excavation, reinforced concrete pavement, bituminous macadam, improved shoulders.

Route 39, Sec. 8, Indian Mills to Great Swamp, Atlantic and Burlington Counties. Excavation, borrow, reinforced concrete pavement, penetration macadam pavement, improved shoulders, dynamite. Certified check, 10 per cent. Deposit, \$10.

New Jersey Contracts Awarded

Bank Building, Trenton, N. J. Contract awarded Public Service Production Co., 80 Park Place, Newark, N. J. Architects, York & Sawyer, 100 East Forty-second street, New York. Owners, First Mechanics National Bank, E. C. Stokes, Trenton, N. J. Brick, limestone, steel, granite, 8 stories, 94x145 feet, 38x62 feet, tile, marble.

Factory (add.), Bridgeton, N. J. Contract awarded George Maier & Brother, Bridgeton, N. J. Architect, Walter L. Custer, 75 East Commerce street, Bridgeton, N. J. Owner, M. C. Schrank, Bridgeton, N. J. Brick, steel, 2 stories and basement, 136x78 feet, slag roof, pine and cement floors, ornamental iron work.

Building (new front), \$7,000. 529 Market street, Camden, N. J. Contract awarded John Gibson, 521 Cooper street, Camden, N. J. Owner, E. S. Jackson, on premises. Block, 1 story, 21x85 feet, slag roof, vapor heat, electric work.

Road Work, Route 42, Sec. 1 and 2, Williamstown to Atlantic County Line, Gloucester County, N. J. Owners, State Highway Commission, Trenton, N. J. Contract awarded F. L. Grant Co., West Chester, Pa., \$400,933.16.

Wire Fence, \$1,750. Front and Kaighn, Camden, N. J. Contract awarded H. T. Potts, East Erie avenue and D street, Phila. Owner, City of Camden, Park Commission, Wilson Building, Camden, N. J. 1,030 feet.

Store (add.), \$2,800. 513 North 6th street, Camden, N. J. Contract awarded John C. Gibson, 521 Cooper street, Camden, N. J. Architect, private plans. Owner, Walter O. Bantle, 513 North 6th street, Camden, N. J. Block, 1 story addition, 16x33 feet, slag roof.

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Miscellaneous Construction News

Bank (alts. and inter. equipt.), 857 Tenth avenue, New York City. Architect, care Rabenold & Scribner, 61 Broadway, New York, taking bids due August 5th, at noon. Owner, Guild State Bank, on premises. Architect, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Changing partitions, new partitions, wood, marble and rubber tile floors, vaults, etc.

Miscellaneous Contracts Awarded

Store Building, Frederick, Md. Contract awarded George F. Hazelwood, Perrin Building, Cumberland, Md. Architect, J. E. Sexton, S. S. Kresge, Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Reinforced concrete, brick, steel, 2 stories and basement, 123x38 feet, slag roof, wood roof deck, cement, oak and pine floors, hollow tile, plumbing, caulking, waterproofing, architectural terra cotta, steel partitions, steam heat, electric light, metal lath, tile, marble and terrazzo work, bond, copper bulks, ornamental iron work, metal ceilings.

The Scientific Book Corporation, 15 East Twenty-sixth Street, New York, has recently published the fourth revised and enlarged edition of "Steel Square Pocket Book," by Dwight L. Stoddard.

This concise and handy little book illustrates and describes the best methods of using the carpenter's steel square. It answers every problem that is likely to come before the practical carpenter in his every-day work.

One feature of this book is the absence of reference letters on the illustrations. Instead of reference letters an exact engraving of the square is given, laid on the work, showing at a glance all points, lengths and quantities sought.

The new edition is made in a compact and handy size to carry around in the pocket. It has a flexible binding. The price is \$1.00 postpaid.

THE IMPORTANCE OF REGIONAL PLANNING

An Address by J. R. FAIRMAN, Manager, Southeastern Offices Portland Cement Association, before the Florida League of Municipalities, St. Augustine, Florida, June 27, 1929

Nearly everyone has in mind some city improvement he thinks would be of great benefit; one man wants the street on which he lives paved; another wants a park established; still another believes a certain street should be widened; this man would like to install a new system of traffic lights; and so on. With all this disunified thinking and planning, I sometimes am forced to wonder how many communities have achieved any semblance of order.

Almost overnight the automobile has changed our mode of living. Through the ability of the individual to get easily about the country, a new standard of living and of education has developed. A city is no longer self-contained; its pros-

perity and development depend to a large degree upon the prosperity of an entire region.

Chief among the several problems confronting the modern city is the provision of adequate facilities for motor traffic. Suburban districts have long existed, but never in all history has their relationship to the city been of such importance and concern as at present. Suburban areas are expanding; cities and their suburbs are now growing together; and the automobile is bringing remote communities nearer to the city. Haphazard growth must be halted, in the face of such tendencies, if a full measure of community efficiency, comfort and beauty is to be attained.

Progressive, populous communities in many parts of the country have adopted regional planning as the medium best adapted to handling this perplexing problem. City planning is not broad enough; our communities are bursting out at the sides. There are greater opportunities in adjacent areas than in the city proper. The picture puzzle of community needs must be solved by trained minds, made available through some such agency as a Regional Planning Commission, whose duties include the analysis of all such factors as population increase, suburban growth, vehicle registration, both present and future, expected industrial development, residential trends, zoning, finances available for improvements, and many other items. Equipped with facts, this Commission will make recommendations and co-operate with other existing agencies to the end that a regional plan of a comprehensive, forward-looking nature will be carried out.

Obviously your Florida cities are to continue growing. I understand that the mayor of Miami during the last winter

season presented more than 100 notables with keys to that city. This is but an indication of what may be expected in the future.

I had realized, of course, that city populations in Florida were increasing, but I must admit I was somewhat startled to learn that since 1925 the population of Jacksonville has increased by 60 per cent.; Tampa, by 85 per cent.; Miami, by 128 per cent.; and St. Augustine, by 80 per cent.

These growths are phenomenal; yet there is every indication that Florida cities are to continue attracting citizens at a high rate. Your cities still have time to convert themselves into communities that are modern in the fullest meaning of the word.

Unfortunately, regional planning did not exist when most of our cities were created. Without knowledge of the changes to be wrought by the automobile, or of the great size to which cities would grow, the early planners neglected to provide for logical and directed growth. Streets, for instance, were rarely of more than the age old four-rod width. Of all the American cities, with the exception of the nation's capital, the only one I can call to mind that made any early attempt at planning for the future, was Detroit.

That city was destroyed by fire nearly one and a quarter centuries ago, as were so many early communities. Afterwards, a prominent Detroit citizen, Judge Woodward, and Governor Hull of Michigan, were responsible for laying out a new Detroit, a Detroit with thoroughfares of three widths. Streets of minor importance were made 60 feet wide, secondary radial arteries, 120 feet, and major arteries, 200 feet. This was a marvelous thing, but sadly, later generations, unable to visualize the Detroit of the future, encroached

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on these wide rights-of-way and today only a few remnants are in service.

Loss of these broad streets, which would so well have served today's traffic, was a costly thing for Detroit. That city is still paying for it through traffic congestion and through time and money consuming condemnation proceedings and other means to gain back a portion of that space once devoted to streets. All of this would have been avoided through adherence to the original far-seeing plan.

But what Detroit lacks today in extra wide downtown streets, she has made up for in suburban development. A Master Plan has been adopted that serves as an object lesson for Florida municipalities. This Master Plan embraces a comprehensive system of wide roads, many of which are already completed, thereby permitting fluidity of present traffic. This plan is a continuing plan; each year definite progress is made toward lengthening the mileage of pavements, none of which is less than 40 feet wide. In the Detroit region they have a battlecry: "Acquire wider rights-of-way today!" To this might well be added the phrase "for tomorrow they will cost more money."

The Master Plan predetermines the position of the transportation avenues which form the skeleton of the street system in the outer areas. It provides for superhighways, 204 feet wide, at three-mile intervals, designed to offer local and through roadways for motor traffic on each side of a center zone reserved for rapid transit service, or future widening or other development. Intermediate roads 20 feet wide are located at mile intervals on section lines. A supplementary system of major thoroughfares 120 feet wide is established at intervals of

approximately three-fourths of a mile within the area of present development.

That is indeed an ambitious plan; yet it is already well under way. Words can scarcely convey a true picture of what Detroit and Wayne county have done; I would suggest that if any of you have the opportunity, you spend a week-end in and near the Motor City.

Many factors enter into city expansion and development. These are of such a serious nature as to require scientific and thorough study of all the principles involved in order that tax payers may be provided with the facilities and conveniences which are their just due. You will grant, I am sure, that little would be accomplished without some central fact-collecting body to study all the proposals, pushing through to completion those best fitted to the community welfare.

Stated in its simplest form, the purpose of the Regional Planning Association is to make an intensive study of all the factors entering into the community's growth and welfare, so the greatest convenience and comfort may be obtained for the tax dollar. The costly experience of a certain Illinois community must be avoided. There, a splendid 40-foot pavement was built out into the country, but unfortunately it ended abruptly in a corn field and was of no use whatsoever to the community for a couple of years.

Chief among the problems facing all communities is that of transport. Adequate transport service not only means that railroads and street railways must be well connected, but also that highways and streets shall form a perfect network of main arteries and secondary roads. Street layouts marked by dead-ends, jogs, narrow widths, poor pavement and a total

lack of co-ordination, must be avoided. Industrial traffic must be studied so heavy trucks can be accommodated without hindrance to passenger vehicle traffic. On the other hand, high speed thoroughfares must be constructed so passenger cars will not be unnecessarily delayed by trucks. Through traffic should also be taken care of. The idea that motorists whose destinations are far away should be directed through the downtown section of cities is now old fashioned. By-pass routes must be provided so this traffic can continue on its way unhampered, and what is more important, with no inconvenience to the home community.

Water and sewage must be given careful attention in the makeup of the up-to-date community. The automobile has made it possible for the downtown worker to establish his home in the outer precincts of the city or even out in the country. Sanitation must be carried to him. Villages and suburban centers must co-operate, for in this co-operation the citizen is given better service with complete safety and at lower cost. Without planning, it is too easy for much needed projects to be neglected and to become political footballs. In the Passaic Valley of New Jersey, for example, a trunk sewer now serves a thickly populated region embracing quite a number of separate municipalities. It was proposed to establish this sewer more than twenty years ago, but endless litigation and negotiation was necessary before it became a reality. All this delay was at the public's expense.

Even in the matter of public utilities, the way is open for the city to accomplish a great deal through early planning. Electricity and gas reach out everywhere. Electric lines and conduits through town and country possibly may conflict with the highways. Early planning of highway improvements will give the utility firms an opportunity to develop their facilities for the best interests of the public and also it will aid them in preventing a later conflict for right-of-way.

One of the greatest achievements open to the Regional Planning Association is the overcoming of problems which I shall call political for want of a better term. The boundaries of governmental units in any region are irregular and often without reason—illogical results of haphazard growth. Areas of municipalities are often either so restricted as to hamper growth, or so extended as to impose some undue burden on the well occupied districts. In the case of the region of Chicago, there are almost exactly 1,000 separate taxing bodies within 50 miles of the downtown section of that city. You are of course not bothered to that degree in Florida. Nevertheless, real progress depends upon the complete co-operation of all governmental units involved.

Here are some of the chief aims of the



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Chicago Regional Planning Association:

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Grade separations at all dangerous railway crossings.

Grade separations at the most important highway intersections.

Uniform traffic regulations in every county, city and village region.

Every highway marked only with official, legible signs of cautions and direction.

Every main highway adequately lighted at night.

Trees planted and maintained along every highway for the comfort and delight of all highway users.

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Chicago, large in itself, is the center of a populous territory and the regional planning problems there are intensified. Nevertheless, the smaller city is faced with the same troubles and identical improvements must come sooner or later.

Let us look for a moment at the program of a small community—Riverside, California, with a population of about 25,000. Riverside has already made remarkable progress and the improvements mapped out for that city bid fair to make it one of the most attractive in the country insofar as appearance, comfort and ease of traffic movement are concerned. Climate is, of course, another matter.

The steps being taken in Riverside are:

1. Regulation to secure maximum capacity of existing space, including elimination of auto parking, prohibition of obstructive turns at particularly busy intersections, ranking of vehicles, use of most effective signaling, curtailment of unnecessary movements and so forth.

2. Improvement of existing street plan, including elimination of jogs and dead-

end traffic streets, creation of distributor and by-pass streets for the business district, and improvement of radial and inter-district thoroughfares of the major street plan.

3. Extension of a regional major street plan to cover the whole district for several miles in each direction outside the city limits, and completion of a boulevard and parkway system plan supplementing it.

4. Provision for the readjustment and extension of railroad lines, with gradual elimination of grade-crossings.

Regional planning is, of course, quite new and I am much pleased that some of your Florida cities are giving serious consideration to this planning movement. If anything, your problems are more intense than they are in any other part of the country. Florida is growing rapidly, you have a marvelous tourist business, you have an established clientele of winter pleasure seekers. Naturally cities in a state so blessed, will grow faster than the average American city.

Jacksonville, I understand, has a city planner, who is not only confronted with traffic and expansion problems within Jacksonville, but is also obliged to consider the whole of Duval county. Obviously, he must take into consideration the principal arteries of travel into Jacksonville, such as State Road No. 1 from the West and No. 4 from the North and to the South, as well as others.

Travel in that city at present across the St. John's River is over one bridge and by one ferry. Clearly, any comprehensive municipal plan must take into consideration the ever increasing need for additional trans-river transportation facilities. New bridges should be located so as to relieve as much of the intra-city traffic as possible, and provide easy crossing of the St. John's River for through traffic as well as local traffic.

Jacksonville's situation definitely indicates why the modern city must extend its city planning to planning in which the whole region is considered. Tampa presents a problem of similar character. Broad thoroughfares leading into the city

must be so located and built as to conform to a plan of the greatest possible utility to the city itself.

Miami has already made noteworthy progress through the building of wide arteries. Biscayne Boulevard, 220 feet wide over an eight-block length, is an excellent example of the type of facility that must be installed if there is ever to be room for the prolific automobile. One of the great difficulties of this modern age is finding a place to park. From this standpoint Biscayne Boulevard is something of a motorists' heaven. For 2,000 cars may be parked along it without hampering travel. You can well imagine what impression Biscayne Boulevard will make on the tourist or home seeker. That latter important individual, particularly will feel, "Here is a city that is progressive, a city that is attempting to make things comfortable for its citizens. I will make my home here."

If your city is smaller than Tampa, Miami and Jacksonville, that does not mean you are freed from the responsibility of regional planning. In fact, it is just as important in the small city as in the large, and frequently more important, for the small community must have something to offer in place of large hotels, office buildings and theatres. Here is St. Augustine there is every indication that before long an improved throughroute will be needed. Because there is so much of historic interest in this community and so much that must be preserved to the nation for all time, it is highly improbable that the widening of thoroughfares through the old section of the city will be contemplated. However, the ever increasing traffic through the city will shortly demand a broad pavement acting in the nature of a by-pass so the present narrow and winding route may be relieved.

Superhighways, roads of more than the usual width, elevated street intersections, railroad grade separations, and pedestrian tunnels are a few of the modern facilities forcing themselves into the up-to-date traffic picture. These improvements are no longer regarded with doubt, for cities

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in many parts of the country have through experimentation proved that they are absolutely practical. One great elevated street separation in Lincoln Park, Chicago, has increased the traffic capacity of Lincoln Park thoroughfares by 300 per cent. That is to say, this one structure has given, in effect, three additional roads. These elevated intersections, wherein one street or road passes over the other, permitting traffic to flow in all four directions continuously and safely, must be placed at strategic points.

The benefits of railroad grade separations are obvious. Surveying accident records, it appears that nothing will eliminate accidents at grade crossings except construction of a bridge over or a tunnel under the tracks so motor and train traffic never will meet.

Wide streets and wide rural roads must be included in every adequate transportation scheme. Thirty years ago the average motor vehicle required a lane only 7 or 8 feet wide in which to move with ease and safety. Since then the average vehicle width has been increased, the maximum generally being 8 feet. Ordinary speed of travel has doubled or tripled and vehicles have grown tremendously in numbers. Street and highway authorities are agreed that, in metropolitan areas at least, the lane of pavement for moving traffic should be ten feet wide; for parking parallel to the curb it should be 8 feet; and for diagonal parking, 18 feet in width, the latter dimension convertible into an added lane for moving traffic with parallel parking. These lane widths are considered minimum for safety and free movement of traffic under all conditions of light, darkness, rain or dry weather. They are also considered maximum, because a slightly wider lane invites the crowding in of another car, which is dangerous.

The superhighway may roughly be defined as a roadway of ample width for the accommodation of four or more lanes of traffic. Of great importance, is the placement of these superhighways. They should be so located that the largest number of motorists will be benefited. Superhighways should be built first where they are most needed. Naturally the only way to determine where wide arteries should be built, is by means of a traffic survey. Traffic as it seems and as it actually is, often are two different things. For instance, a traffic count taken at Buffalo, N. Y., revealed figures that surprised even those fairly conversant with that city's traffic problem. More than 50,000,000 vehicle movements across the city line took place in 1927, a daily average movement of over 138,000 vehicles! Other surveys conducted by cities and states throughout the country have in many instances revealed that heavier traffic exists on certain roads than was expected.

Here again there is a definite need for the Regional Planning Association. Varying interests in the community, the ability to pay for additional civic improvements, and anticipated future community growth, must be considered in location of such thoroughfares.

Another paramount issue is the matter of rights-of-way. The procedure followed by the superhighway commission of Macomb and Wayne and Oakland and Wayne counties, surrounding Detroit, indicates what must be done in all communities expecting to grow. This commission, in anticipation of future highway needs, is acquiring right-of-way of varying width up to 200 feet. The width of the original road surface has been predetermined. In the future when additional road surface is needed, pavements will be laid without any delay whatsoever.

The regulation of the use of private property by a public agency, through zoning, has become well established as a function of government. But what is done by zoning bodies and engineers in the way of placing restriction upon the free use of private property must have a lasting effect upon the community whether the work is well or poorly done—whether the ordinance is well or poorly administered. It is desirable, of course, that the results be the best obtainable.

Through the medium of the Regional Planning Association, and the thorough studies which can be made by such an organization, proper city zoning may be accomplished.

After all, the metropolitan community can be regarded as a child; it must be properly nourished and its development must be properly guided. Clearly, there should be some ruling, guiding hand to correlate the manifold activities of government along this line.

There is no governmental agency authorized or qualified to do the work for a city and its environs too. Whatever is to be accomplished must come through the activities of the citizens themselves. The body necessary to do such work must be non-political, or it must carry on a unified plan through year after year of changing governmental officials. The regional planning associations built up by Chicago, Buffalo, St. Louis and many other cities, have demonstrated the need for such progressive scientific bodies. The modern city is growing more complex. Changes in the organization of the city must come about if it is to keep pace with the changes in our living standards. More is expected of the community than ever before; pure water must always be on hand; streets must be smoothly paved; the schools must be excellent; the parks must be spacious and clean; sewage disposal must be never failing; protection from fire must always be at hand.

All these things cost money, and their costs are personified in the taxes collected by the various governing bodies. If the citizen can be made to realize that the conveniences furnished by his government are in reality part of his personal wealth, that actually through many improvements he receives more than he pays for, he will become more willing to support the improvements which modern conditions require.

All taxpayers are naturally interested in economy; they must be assured that their money is being properly expended. They are demanding that the principles of private business be adopted in conduct of the business of government. The business that is permitted to run itself cannot be as profitable as one that is carefully and thoughtfully directed. Through the medium of a Regional Planning Association the community's growth and future are safeguarded, its funds are most effectively invested in dividend-paying improvements, and its energy is most efficiently employed.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public associations tending to overcome the natural habit of procrastination.—Making advertising pay.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

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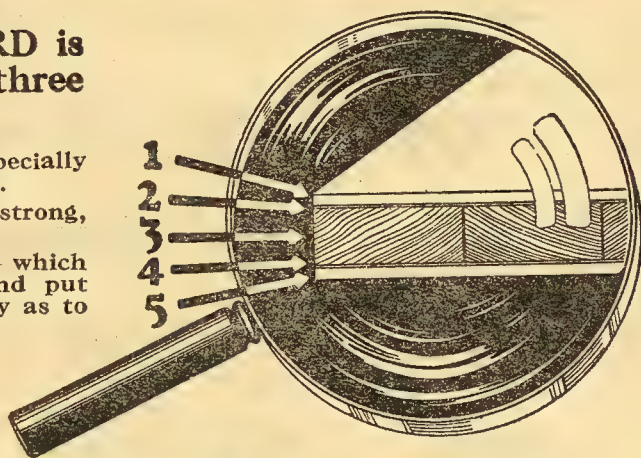
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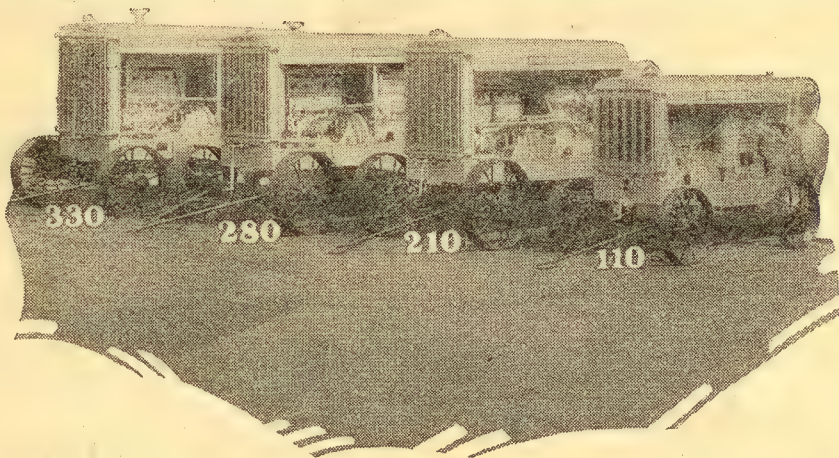
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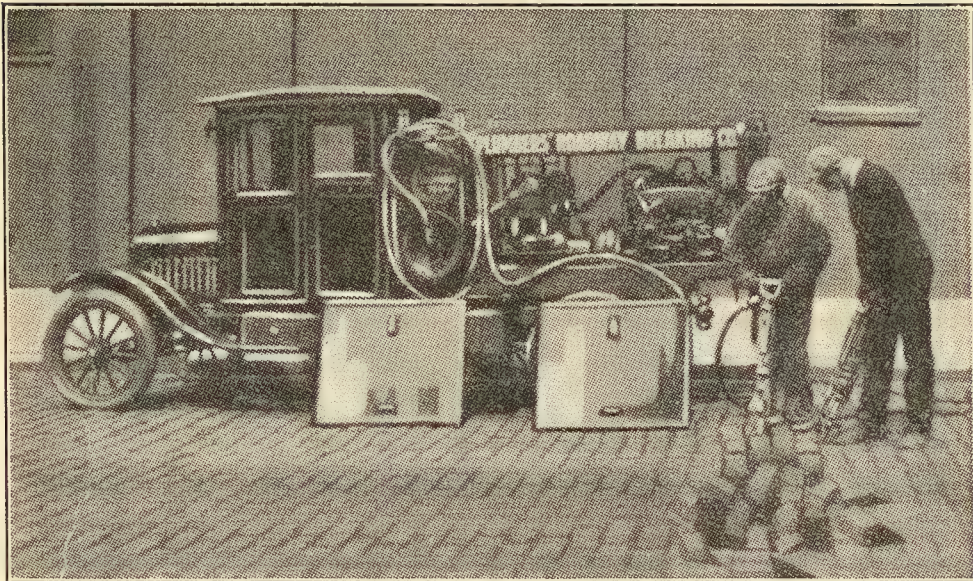
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 32

PHILADELPHIA
August 7, 1929

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BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, Fifty-eighth and Cobb's Creek Parkway, Philadelphia. Work contemplated. Brick, cast stone, steel, 4 stories and basement. Owner, care of Francis H. Thole, Morris Building, Philadelphia.

Apartment House, Camac street and Lindley avenue, Philadelphia. Work contemplated. Details undecided. Architect not selected. Owner, Irving Shanhart, care of Blum & Brown, Pennsylvania Building, Philadelphia.

Warehouse, Torresdale and Kinsey street, Philadelphia. Plans in progress. Architect, private plans. Owners, Crane Co., 1301 Locust street, Philadelphia. Brick. Details undecided.

Apartment House, Chew and High streets, Philadelphia. Revised plans in progress. Ready for bids in 3 weeks. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, David Sloan, 815 East Cheltenham avenue, Philadelphia. Brick, 4 stories and basement, 87x200 feet, garage, 40x114 feet, repair shop, 18x30 feet.

Apartment House (19 suites), 501-07 Reed street, Philadelphia. Owner taking sub-bids. Architect, Herman H. Kline, 709 Chestnut street, Philadelphia. Owner, Chas. Forman, 1017 South Second street, Philadelphia. Brick, 3 stories, irregular in size, slag roof, electric light.

Gasoline Service Station, Twenty-first and Chestnut streets, Philadelphia. Owners, Paramount Service Co., care of architect. Architect taking sub-bids. Architect, A. C. Bieber, 1520 Locust street, Philadelphia. Steel sash, tanks, concrete drives, size of tract 21x130 feet, station, 10x18 feet.

Residences and Garages (6), Monastery avenue, Martin street, Roxborough, Philadelphia. Owner taking sub-bids. Architect, private plans. Owner, Joseph Feldman, Northeast Corner Fifteenth and Locust streets, Philadelphia. Brick, 2 stories, 20x35 feet, slag roof, hardwood floors, hot water heat, electric light, tile work.

Garage, Front and Arch streets, Philadelphia. Architect ready for bids. Architect, Thomas C. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, care of architect. Brick, steel, concrete, fireproof, 3 stories and basement, 55x107 feet, slag roof, gypsum roof deck, cement floors, elevators, steam heat, electric light, rolled steel sash.

Club House (alts.), Northeast Corner Fourth and Rockland streets, Philadelphia. Owners taking bids and sub-bids due at once. Architect, private plans. Owners, Franklinville Quartette, on premises. Carpentry and mill work, plastering, painting, glazing, brick work.

Church (Indiana Avenue Branch), Indiana avenue and Croskey street, Philadelphia. Architect taking bids due August 9th. Architect, Edwin A. Yeo, 1520 Locust street, Philadelphia. Owners, Tioga Presbyterian Church, Sixteenth and Tioga streets, Philadelphia. Stone, basement, 40x75 feet, slag roof, maple floors, metal lath.

Residence, West Cliveden avenue, Germantown, Philadelphia. Architects taking bids due August 8th. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Anna Lichtenstein, care of architect.

Stone, 2½ stories, 30 feet 6 inches x 55 feet 6 inches, 13 feet 3 inches x 21 feet 4 inches, slate roof, hardwood and composition floors, vapor heat, gas burner, electric light, tile and marble work.

Contract No. 19A, Fifth Street Pedestrian Underpass, Delaware River Bridge, Philadelphia Approach. Owners taking bids due August 16th, 1.30 P. M. (Eastern Standard Time). Reinforced concrete work, excavation, granite work, structural steel, brick sewer, dampproofing. Certified check, \$1,000. Owners, Delaware River Joint Bridge Commission, Joseph K. Costello, Camden, N. J.

Residences (90), Magee above Sacket street, Philadelphia. Work started by owners on 28. Sub-bids on balance later. Owners, Ideal Homes, Inc., Samuel Rochlis, 1518 North Fifteenth street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hardwood floors, hot water heat, tile work.

Apartment House, \$250,000. South side Sprague street, Phil Ellena to Vernon, Phila. Permit issued. Architects, Stetler & Deysher, 709 Chestnut st., Phila. Owners, Stenton Realty Co., 1600 Walnut st., Phila. Brick, 4 stories, 169x76 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work.

Apartment House, \$250,000. Northwest Corner Penn and Knox streets, Philadelphia. Permit issued. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Steinman & Lessee, 25 South Fifty-ninth street, Philadelphia. Brick, 4 stories, 56x17 feet, 40x144 feet,

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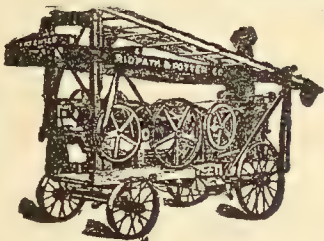
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Apartment House, West side Fifty-first street, North of Woodbine avenue, Philadelphia. Permit issued. Architects, William Paley & Associates, 4700 Springfield avenue, Philadelphia. Owner, R. F. Johnson, Oxford Bank Building, Philadelphia. Brick, 4 stories, 88x115 feet, slag roof, hardwood and pine floors, tile work, electric light.

Office, \$2,500. West side Fifteenth street, North of Callowhill street, Philadelphia. Permit issued. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Brick, 1 story, 9x53 feet.

Apartment House, \$250,000. Southeast Corner Sixty-first and Baltimore avenue, Philadelphia. Permit issued. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owners, Edelstein & Bernstein, 219 South Broad street, Philadelphia. Brick, 4 stories, 152x86 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work.

Apartment House, \$125,000. 6124-34 Pine street, Philadelphia. Permit issued. Architect, Richard R. Neely, 2301 Spruce street, Philadelphia. Owners, Herko Construction Co., 2301 Spruce street, Philadelphia. Brick, 4 stories, 95x32 feet, 31x56 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work.

Residence, \$6,000. West side Sanford street, North of Evans street, Philadelphia. Permit issued. Owner, Byron Haas, Foster street, Philadelphia. Frame, 2 stories, 40x24 feet, hot water heat, electric light.

Garage, \$40,000. Southeast Corner Fifty-seventh and Market streets, Philadelphia. Permit issued. Architect, C. B. Comstock, 110 West Fortieth street, New York City. Owners, General Baking Company, on premises. Brick, 2 stories, 76x140 feet, slag roof, cement floors.

Storage Building, \$40,000. South side Market street, East of Fifty-seventh street, Philadelphia. Permit issued. Architect, C. B. Comstock, 110 West Fortieth street, New York. Owners, General Baking Co., on premises. Brick, 1 story, 134x140 feet.

Shop (add. and alts.), \$15,000. Northeast Corner American and Cambria streets, Philadelphia. Permit issued. Architect, F. G. Fredricks, 121 North Broad street, Philadelphia.

Owners, American Ice Co., 121 North Broad street, Philadelphia. Brick, 1 story add., 71x61 feet, general alterations.

School, Green and Cliveden streets, Philadelphia. Low bidder: Nelson Pedley Construction Co., 1510 Chestnut street, Philadelphia. Architects, H. D. Dagit & Son, 1322 Race street, Philadelphia. Owners, St. Magdalen Sophia Roman Catholic Church, Rev. M. A. Crane, on premises. Stone, limestone, granite, steel, 2 stories and basement, 160x36 feet, wing 97x61 feet, slate roof, cement and maple floors, hollow tile, plumbing, metal lath, tile, marble and terrazzo work, rolled steel sash, tin-clad doors, bond, ornamental iron work, iron stairs, bronze work, area gratings, roof ventilators, caulking, waterproofing and damp-proofing, flagstone, excavation, concrete and cement work, plaster bond, hardware, alberne stone.

Contract No. 179, Broad Street Subway (escalator well), City Hall Station. Low bidders: George F. Dobbins, 1020 South Forty-seventh street, Philadelphia, \$33,980; Kaufman Construction Co., 26 South Fifteenth street, \$35,365. Owners, Department of City Transit, City Hall Annex, Philadelphia.

Bridges (2), Henry Avenue Bridge, over tracks of Reading R. R., between Park and Roberts aves.; Welsh Avenue Bridge, over Pennypacker Creek, Phila. Owners taking bids due Aug. 14th, 11 A. M. (Eastern Standard Time). Owners, Bureau of Engineering and Surveys, City Hall Annex, Philadelphia.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Coulter, Wayne to Laurens, Municipal Paving Co., Second and Wingohocking streets, \$28,975.40. Green, Broad to Sixth, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$45,704.90. Lansdowne, Fifty-second to Sixtieth, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$32,819. Venango, Frankford to Tulip street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$28,763.70. Twenty-first, Ridge to Susquehanna, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$50,887.04. Sixtieth street, Market to Spruce street, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$17,264.64.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Provost House (alts.), Fortieth and Pine streets, Philadelphia. Contract awarded Monaghan & Loose, 3016 Chestnut street,

Philadelphia. Architect, private plans. Owner, University of Pennsylvania, care P. Wilson, Thirty-fourth and Spruce streets, Phila-

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Factory Building (add.), \$75,000. Thirty-third and Reed streets, Philadelphia. Contract awarded Farrell Roth Construction Co., 21 South 46th street, Philadelphia. Architect, private plans. Owner, John G. Lorenz Corporation, on premises. Brick, concrete, structural steel, 1 story, 24,000 square feet, gypsum roof, concrete floors.

Store (alts. and add.), 1729 Chestnut st., Philadelphia. Contract awarded Louis Rosen-garten, Otis Building, Philadelphia. Architect, E. A. Stopper, 10 South 18th street, Philadelphia. Owner, Anthony Boch, 1722 Chestnut street, Philadelphia. Carpentry, tile work, mill work, plastering, painting, glazing.

Office Building (add.), Twenty-third and Westmoreland streets, Philadelphia. Contract awarded Barclay White Co., 22 North Thirty-sixth street, Philadelphia, who are taking sub-bids due August 6th. Architects, Davis, Dun-lap & Barney, 1805 Walnut street, Philadelphia. Owners, Sharpless Specialty Co., on premises. Brick, cut stone, steel, cast stone, 2 stories and basement, 103x38 feet, slag roof, cement and linoleum floors, electric light, metal lath, tile, marble and terrazzo work, rolled steel skylights, fire doors, bond, ornamental iron work, iron pipe, cast stone, plumbing.

Office and Garage Building, 1616-26 Walnut street, Philadelphia. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owners, Monarch Realty Co., R. Heyman and Joseph J. Greenberg, Fidelity-Philadelphia Building, Philadelphia. Brick, limestone, steel, 23 stories and basement, 120x150 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble work, ornamental iron work.

Fire Station (alts.), Fiftieth and Willows avenue, Philadelphia. Contract awarded. Architect, William S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia. Brick, steel, 2 stories and basement, 41x30 feet, slag roof, cement floors, metal lath, tile, marble, steel skylights, bond, ornamental iron work. E. E. Hollenback, 1910 North Marshall street, Philadelphia, \$18,391. Heating, Fred G. Wackenhut, 2416 Frankford avenue, Philadelphia, \$2,035. Plumbing, Fred G. Wackenhut, 2416 Frankford avenue, Philadelphia, \$3,755. Electric, Industrial Electric Co., 124 North Sixty-third street, Philadelphia, \$1,016.

Store Building (alts.), 1016 Chestnut street, Philadelphia. Contract awarded Bowden Construction Co., 1607 Summer street, Philadelphia. Architect, Howard Dwight Smith, Cleveland, Ohio. Owners, Nisley Shoe Co., care of

architect. Electric light, plate glass, bulk window, carpentry and mill work, painting, glazing.

Residence (alts. to Show Room), Fifty-second and Whitby avenue, Philadelphia. Contract awarded Ramos & Wiggins, 2535 South Seventy-third street, Philadelphia. Architect, private plans. Owner, Frank F. Mathers, Paul Somers in charge, 10th and Washington, Phila. Brick, 1 story, 22x18 feet, demolition, excavation, stone work, brick work, slag roof, mill work, electric, painting, plumbing, heating.

Building, Holmesburg, Pa. Contracts awarded Wark & Co., 1600 Walnut street, Philadelphia, \$99,500. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Board of Inspectors, Phila. County Prison. W. H. Histon, Supt., Tenth and Reed sts., Philadelphia. Bond (plumbing, heating, electric separate bids), Holmesburg granite, concrete, steel, brick, demolition, excavation, cement floors, iron stairs, iron work, steel skylights, steel sash, steel casement sash, composition roof, asbestos corrugated roofing, cork insulation, carpentry and mill work, metal lath, plastering, painting, glazing, kitchen equipment, hardware, waterproofing, watch tower, stone, 13 feet wide, 50 feet high, dining room, 1 story, 100x49 feet, isolation ward, 1 story and basement, 62x15 feet, new roof over boiler house. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$10,300. Heating, N. Connolly, 1404 North Eighteenth street, Philadelphia, \$86,666. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$19,777.

Garage (alts.), Fall road, Roxborough, Philadelphia. Contract awarded G. L. & J. K. Callahan, 473 Oriole street, Philadelphia. Architect, private plans. Owner, Frank M. Page, Falls road, Roxborough, Philadelphia. Over-head doors, cement work, painting, glazing.

Lavatory Building (alts.), Sixty-fourth and Malvern avenue, Philadelphia. Contract awarded D. A. McClelland, Drexel Building, Philadelphia. Engineer, I. H. Francis, 1520 Locust street, Philadelphia. Owners, Pennsylvania Institute for Blind, Eli Kirk Price, Secretary, 709 Walnut street, Philadelphia. Plumbing, tile, plastering.

Apartment House, \$240,000. Southeast Corner Fifty-third and Wynnefield avenue, Philadelphia. Contract awarded Sort Construction Co., Fox Building, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Bee-Bee Construction Co., Fox Building, Philadelphia. Brick, 4 stories, 78x38 feet, 185x45 feet, slag roof, hardwood and pine floors, electric light, tile work.

Apartment House, \$200,000. Southwest Corner Thirtieth and Sixty-eighth avenue, Philadelphia. Contract awarded Harry Pearl &

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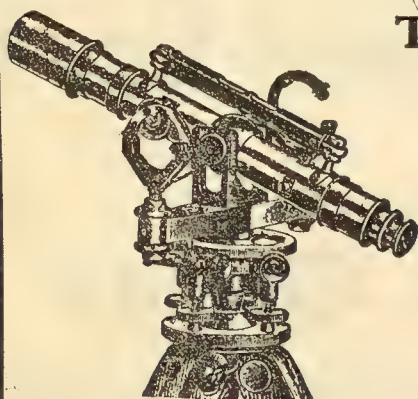
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Co., Inc., 310 South Tenth street, Philadelphia. Architect, M. A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owners, Oak Lane Arms Construction Co., 310 South Tenth street, Philadelphia. Brick, 4 stories, 54x85 feet, 54x54 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Auditorium (alts.), \$2,500. 21 West Washington lane, Philadelphia. Contract awarded Rush J. Whitson Sons, 2115 Wallace street, Philadelphia. Owners, Women's Club of Germantown, on premises. General alterations.

Store and Residence (alts.), \$2,000. 1706 Rittenhouse Square, Philadelphia. Contract awarded J. J. Kay, 529 South Fifty-fifth street, Philadelphia. Architect, private plans. Owner, T. M. Quimby, 1702 Walnut street, Philadelphia. General alterations.

Church (alts.), \$15,000. Southwest Corner Eighteenth and Wolf streets, Philadelphia. Contract awarded W. P. Cameron Engineering Co., 4850 North Marsden street, Philadelphia. Owners, Evangelical Lutheran Church, Eighteenth and Wolf streets, Philadelphia. General alterations.

Service Station, \$8,000. Southwest Corner Wister and Rittenhouse streets, Philadelphia. Contract awarded E. C. Haldeman, 3438 North Twentieth street, Philadelphia. Owners, Sinclair Refining Co., Thirty-third and Walnut streets, Philadelphia. Brick, 1 story, 25x50 feet.

Office (add. and alts.), \$7,500. 328-30 South Twenty-first street, Philadelphia. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia. Owners, Fidelity-Philadelphia Trust Co., Broad and Walnut streets, Philadelphia. Brick, 4 stories add., 9x17 feet, general alterations.

Apartment House (alts.), \$2,500. 743 South Fifteenth street, Philadelphia. Contract awarded Shaw & Williams, 1627 Carpenter street, Philadelphia. Architect, J. A. Cook, 1515 Christian street, Philadelphia. Owner, Albert Field, 770 South Fifteenth street, Philadelphia. General alterations.

Apartment House, \$500,000. Northwest Corner Sprague and Ardleigh streets, Philadelphia. Contract awarded Albert A. Shatton, Real Estate Trust Building. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owners, Mt. Airy Arms Corporation, 308 Real Estate Trust Bldg., Philadelphia. Brick, 4 stories, 155x38 feet, 43x25 feet, vapor heat, electric light, hardwood and pine floors, slag roof, tile work.

Apartment House, \$175,000. North side Church lane, East of Ogontz avenue, Philadelphia.

Contract awarded Barnett Construction Co., Mitten Building, Philadelphia. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owners, Mary A. Trask Co., Mayfair House, Philadelphia. Brick, 4 stories, 100x142 feet, vapor heat, electric light, tile work, hardwood and pine floors, slag roof.

Apartment House, \$70,000. Rochelle avenue, North of Retta street, Philadelphia. Contract awarded Samuel Goldstein, 105 Sumac street, Philadelphia. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owners, Rochelle Apartment Corporation, 105 Sumac street, Philadelphia. Brick, 4 stories, 44x112 feet, slag roof, hardwood and pine floors, tile work.

Dye House, \$50,000. East side Cedar street, North of Somerset street, Philadelphia. Contract awarded Wintz Brothers, 1618 Sellers street, Philadelphia. Architect, I. P. Orlick, 4634 Frankford avenue, Philadelphia. Owners, Fairmount Dye Works, Cedar and Cambria streets, Philadelphia. Brick, 2 stories, 63x43 feet.

Garage, \$30,000. West side Eighth street, North of South street, Philadelphia. Contract awarded A. Shotz & Co., 250 South Broad street, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Philip Eskin, 250 South Broad street, Philadelphia. Brick, 2 stories, 111x84 feet, slag roof, cement floors.

Garage (alts.), \$5,000. 1923 Cuthbert street, Philadelphia. Contract awarded McCormick-Lenham Co., Fortieth and Chestnut streets. Architect, S. K. Bringham, 1923 Arch street, Philadelphia. Owner, Robert R. Bringham, 1923 Arch street, Philadelphia. General alterations.

Laundry (add.), 319 North Fifty-seventh street, Philadelphia, \$4,000. Contract awarded H. F. Dinkelacker, Ruan and Leiper streets, Philadelphia. Owners, Bell Damp Wash Laundry Co., on premises. Brick, second story add., 25x29 feet, 31x52 feet.

Post Office, \$12,000. 132-34-36 Levering street, Philadelphia. Contract awarded Roberts & Castor, 18 Newton avenue, Philadelphia. Architect, C. A. Quinn, Post Office Building, Ninth and Market streets, Philadelphia. Owner, Morris Wolf, 6200 Carpenter street, Philadelphia. Brick, 1 story, 33x20 feet, 44x54 feet.

Hotel (alts.), \$5,000. Southeast Corner Broad and Walnut streets, Philadelphia. Contract awarded H. J. O'Brien & Co., 6635 Wayne avenue, Philadelphia. Owners, Broad and Walnut Streets Corporation, Ritz-Carlton Hotel, Philadelphia. General alterations.

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Contract awarded Louis Swerdloff, 4917 Sansom street, Philadelphia. Architect, Irvin E. Spirer, Yeadon, Pa. Owners, S. Goldman Sons, 229 South street, Philadelphia. Bronze work, black and green marble, terrazzo work, plate glass, leaded glass, art travertine.

Factory, \$30,000. West side Hasbrook street, South of Unruh street, Philadelphia. Contract awarded Fred Sandritter, 556 Marwood road, Philadelphia. Architect, private plans. Owner, George Bergman, 404 Annabury street, Philadelphia. Brick, steel, 1 story, 150x100 feet.

Manufacturing Building (alts.), \$12,000. Northeast Corner Eighth and Columbia avenue, Philadelphia. Contract awarded Max Cotler, 1220 North Forty-second street, Philadelphia. Architect, private plans. Owner, M. Rosenbaum, 1818 North Fifty-fourth street, Philadelphia. General alterations.

Club (add.), \$6,000. West side Lawrence street, South of Girard avenue, Philadelphia. Contract awarded John P. Hallahan, 3116 Market street, Philadelphia. Owners, Men's Club, St. Peter's Church, Fifth and Girard avenue, Philadelphia. Brick, second story add., 22 feet 5 inches x 60 feet.

Storage, \$5,100. Northwest Corner Front and Master streets, Philadelphia. Contract awarded Charles N. Barndt, 3957 North Franklin street, Philadelphia. Owners, S. and D. Carrie, 105 West Master street, Philadelphia. Brick, 1 story, 33x60 feet.

Store Front (alts.), 1014 Chestnut street, Philadelphia. Contract awarded Frank A. England, 1124 Washington avenue, Philadelphia. Architect, Ralph E. White, 1518 Walnut street, Philadelphia. Owners, Hanover Shoe Co., 1016 Chestnut street, Philadelphia. Metal bulks, plastering, marble, travertine work, cast stone.

Miscellaneous Work, Philadelphia. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Tabor, O. Magee to Fanshawe street, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$3,541.94. Asphalt resurfacing: Group No. 4, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$28,686. Group No. 5, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$29,685. Group No. 6, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$28,199.60. Group No. 7, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$29,899.70. Group No. 8, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$30,093. Group No. 9, Eastern Paving Co., 1600 Arch street, \$30,984.52. Group No. 10, Municipal Paving Co., Second and Wingohocking streets, Philadelphia, \$25,244.80. Group No. 11, Municipal

Paving Co., Second and Wingohocking streets, Philadelphia, \$30,183.80. Group No. 12, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$29,253.10.

Pennsylvania Construction News

Store Building, Main street between Third and Fourth avenues, Royersford, Pa. Owner will build. Excavations and masonry started. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Samuel Green, 646 Second avenue, Royersford, Pa. Brick, steel, stone, concrete, 1 story and basement, 18x18 feet, built-up roof, steam heat, electric light, plumbing, plate glass, store front, metal signs, awnings, store fixtures, tile and hardwood floors.

Sunday School Building, Fourth and Main streets, Darby, Pa. Architect taking bids due August 14th. Architects, Druckenmiller and Williams, Otis Building, Philadelphia. Owner, Darby Presbyterian Church, Elisha Safford, Colwyn, Pa. Stone, steel, 2 story addition, 40x90 feet, slag roof, maple and cement floors, metal lath, bond, ornamental iron work.

Bank, Wayne, Pa. Architect taking bids due August 12th. Architect, MacKenzie & Wiley, Bankers Trust Building, Philadelphia. Owner, Wayne Title & Trust Company, Wayne, Pa. Brick, lime stone, steel, 2 stories and basement, 84x84 feet, slag roof, cement floors, metal lath, tile work, bond, ornamental iron work.

School, North York, Pa. Plans in progress. Architect, Henry L. Reinhold, Jr., 10 South 18th street, Philadelphia. Owner, School Board of Borough of North York, Pa.

Grading, Glenside Weldon School. Owners, School Directors, Abington Township, C. M. Doll, Abington. Owners taking bids due Aug. 19th, 6 P. M. Certified check 5%. Landscape architect, R. D. Cridland, 308 South Smedley street, Philadelphia.

Grading. Grading, driveway, cement walks and curbs, Susquehanna street, Abington, Pa. Owner taking bids due August 19th 6 P. M. (S. T.) Owner, Board of School Directors, Abington Township, Pa. C. M. Doll. Engineers, Albright & Mebus, 112 South Easto road, Glenside, Pa. Surety bond.

High School, Tenth and Leiper streets, Eddystone, Pa. Work contemplated. Owners, School Board of Eddystone, N. W. Johnson, Jr., Eddystone, Pa.

Art Building, \$200,000. Indiana, Pa. Architects selected. Architects, Lawrie & Green,

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Odd Fellows' Building, Harrisburg, Pa. Owners, State Teachers' College, Indiana, Pa., Charles R. Foster, Principal, Indiana, Pa.

Residences (20), Development, \$75,000 each. Rose lane and Avon road, Haverford, Pa. Preliminary plans in progress. Architects, De Armond, Ashmeade & Bickley, 22 South Fifteenth street, Philadelphia. Owners, Duffield Ashmeade, Jr., and J. Morgan Lister, 22 South Fifteenth street, Philadelphia. Preliminary plans in progress, for roads and grading, etc.

Residence and Garage, School lane, Lancaster, Pa. Plans in progress. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owner, Robert H. Evans, care of architect. Brick, concrete block, 2½ stories, 55x60 feet, slate roof, hardwood and linoleum floors, oil burner, electric light, tile work, incinerators.

Stores (3), Coatesville, Pa. Revised plans in progress. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owners, Cohen Brothers, Main street, Coatesville, Pa. Steel, brick, 2 stories, 60x125 feet, composition roof, maple floors, tile, steel sash, electric light, metal lath.

Airport, \$500,000. Near Jacksonwald, Pa. Plans in progress. Architect, E. Heckman, 148 South Fifth street, Reading, Pa. Owners, Berks Airways, care of architect.

Church (add. and alts.), Tuckerton, Pa. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Hinnershitz Union Church, Rev. Keisler, Reading, Pa. Brick, 1 story, 2 wings, slate roof, composition floors, general alterations, steam heat, electric light.

Sales and Service Building and Bowling Alley, Markley and Oak streets, Norristown, Pa. Plans in progress. Architect will take bids in week. Architect, E. Lane Crawford, 509 Swede street, Norristown, Pa. Owners, Simon Brothers & Rickle, 228 West Main street, Norristown, Pa. Brick, steel, concrete, limestone trim, 1 story and basement, 50x160 feet, slag

roof, hardwood and cement floors, steam heat, electric light, oil burner, metal lath, rolled steel sash.

Residence and Garage, \$50,000. Penn street, Wynnewood, Pa. Owner will take bids in three weeks. Plans in progress. Architect, not yet decided. Owner, C. Donald Swartz, Pennsylvania Building, Philadelphia.

Office (alts. and add.), 822 Broad street, Chester, Pa. Architect will be ready for sub-bids in 10 days. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owner, Dr. D. C. Turkinton, 822 East Broad street, Chester, Pa. Brick, steel, 3 stories, 20x60 feet, hot water heat, slate roof, hardwood floors.

Gasoline Station, Gay and Adams streets, West Chester, Pa. Owner will build. Architect, private plans. Owner, Charles Kahn, Seventeenth and Chestnut streets, Philadelphia. Lessees, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Hollow tile, stucco, 1 story, 16x15 feet, tile roof, cement floors.

Bank (alts. and add.), York, Pa. Architect will be ready for bids in one week. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, York Trust Co., J. Lewis, President, 21 East Market street, York, Pa. Brick, 3 stories, 68x63 feet, terrazzo and linoleum floors, elevators, metal window guards, bronze, ornamental iron, granite, skylights, tile, marble, terrazzo, electric light, heating extension.

Warehouse and Garage, \$177,000. Fifteenth and Paxton streets, Harrisburg, Pa. Engineers will build. Engineers, United Engineers & Constructors Co., Broad and Arch streets, Philadelphia. Owners, Harrisburg Gas Co., Harrisburg, Pa. Brick, concrete block, 1 and 2 stories, slag roof, cement floors.

School, Glen Mills, Delaware County, Pa. Owners taking sub-bids. Architect, private plans. Owners, Glen Mills School, Charles R. Miller in charge, Glen Mills, Delaware County, Pa. Stone, steel, frame, brick, 2 stories, 164x122x40x122 feet, slate roof, concrete

floors, vacuum heat, electric light, rolled steel sash.

Sunday School (add.), \$35,000. Tenth and Broad streets, Quakertown, Bucks County, Pa. Architect taking sub-bids. Architect, Charles M. Talley, 314 North Broad street, Quakertown, Pa. Owners, St. John's Lutheran Church, Rev. Howard Bitting, Quakertown, Pa. Brick, cut stone, 1 story, 60x75 feet, slag roof, steam heat, electric light.

Residence, Lancaster, Pa. Owner will build. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Real Estate Construction Co., 22 South Duke street, Lancaster, Pa. Brick, 2½ stories, 25x60 feet, slate roof, hardwood floors, tile work, hot water heat, oil burner, electric light.

Y. M. C. A. (add.), 633 Washington street, Reading, Pa. Architect taking bids. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Reading Y. M. C. A., F. S. Livingwood, on premises. Brick, steel, cinder block, 6 stories and basement, 94x132 feet, slag roof, concrete deck, concrete floors, hollow tile, elevators, roof ventilators, waterproofing and dampproofing, kitchen equipment, iron stairs, bond, fire doors, steel sash, tile, marble, metal lath, steam heat, electric light (kitchen equipment reserved).

Residence and Garage, Moylan, Delaware County, Pa. Architect will be ready for bids in three weeks. Architect, E. Kenny Crothers, Media, Pa. Owner, Edward F. Beatty, Moylan, Pa. Stone, clapboard, 2½ stories, 34x90 feet, shingle roof, hot water heat, oil burner, tile work.

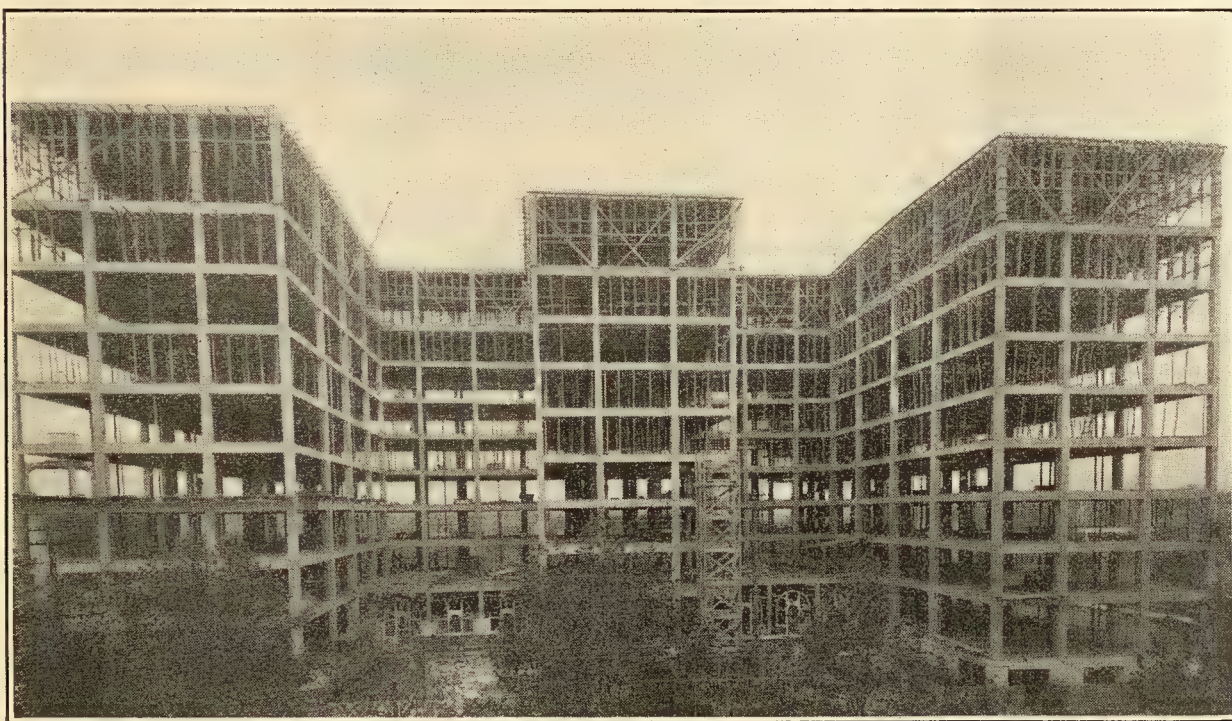
Hotel (alts. and add.), West Chester, Pa. Owner taking bids due August 12th. Architect, Clayton Lappley, Third and Locust streets, Harrisburg, Pa. Owners, Mrs. Suzanne Millhizer and J. J. Millhizer, West Chester, Pa. Brick, cast stone, steel, 7 stories and basement, 64x96 feet (elevators reserved), steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash, kalamein and hollow metal doors, bond, ornamental iron work, casement windows, Barrett specification roof, oak and pine and cement floors, roof ventilators, incinerators, demolition, excavation, pyrobar gypsum tile, cinder concrete block, hollow tile work, linoleum floors, hardware, painting, glazing, hollow metal, elevator enclosures, iron stairs.

Residence and Garage, Gettysburg, Pa. Architect taking bids due August 9th. Architect, Edward Leber, 42 West Market street, York, Pa. Owner, Dr. J. McCrea Dickson, 103 West Middle street, Gettysburg, Pa. Stone, 2½ stories, 35x60 feet, 26x28 feet, slate roof, hardwood floors, electric light, tile work, brass pipe, flagstone.

Cottages (2), Buckingham Valley, Bucks County, Pa. Architect taking bids due August 9th. Architect, A. Oscar Martin, Doylestown, Pa. Owner, name withheld. Frame, 1½ stories, 28x30 feet, slate roof, pine floors, hot air heat.

Warehouse, Pottstown, Pa. Architect taking bids due August 9th. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owners, S. Liebovitz & Son, care of architect. Brick, 2 stories, 68x11 4feet, built-up roof, cement floors, caulking, waterproofing and damp-proofing, fire escape, fire doors, steel sash, tile coping, electric light.

Lodge Building (alts.), Somerton, Pa. Architect taking bids due August 15th. Architect, Christian H. Fries, Frankford and Oxford street, Philadelphia. Owners, Henry A. Houseman Lodge, No. 717, F. and A. M., care of I. R. McGraw, Maple and Station avenues, Somerton, Pa. Interior alterations, hot water heat, tile work, furniture, stairs, hardwood floors, plumbing and fixtures, cement paving, removing and changing partitions and walls,



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Home, Lancaster, Pa. Architect taking bids due August 9th. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Reformed Synod Church, care of architect. Brick, 2½ stories, 35x80 feet, slate roof, linoleum floors, hot water heat, electric light, tile work, steel sash.

Residence, York, Pa. Architect taking bids due August 15th. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, Dr. L. S. Weaver, R. D. 8, York, Pa. Brick, 2½ stories, 45x32 feet, slate roof, hardwood floors, tile work, electric light, steel casement windows.

Liberal Arts Building (second unit). State College, Pa. Architect taking bids due August 22nd. Architect, Charles Klauder, 1429 Walnut street, Philadelphia. Owners, Pennsylvania State College, State College, Pa. Brick, reinforced concrete, limestone, steel, granite, 2 stories and basement, 112x57 feet, composition roof, concrete floors, metal lath, tile, marble, terrazzo work, rolled steel sash, bond, ornamental iron work, bluestone.

Community Hall, Bryn Athyn, Pa. Architects taking bids due August 15th. Architects, Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Owners, Bryn Athyn Community Hall, Bryn Athyn, Pa. Brick, steel, 2 stories and basement, 130x114 feet, slate roof, pine and cement floors, metal lath, bond, ornamental iron work.

School (add.), Johnson avenue, Upper Chichester Township, Pa. Low bidder: Sennett Brothers, Boothwyn, Pa. Heating and plumbing, W. T. Fowden, Chester, Pa., \$695. Electric, John R. Longhead, Chester, Pa., \$69. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owners, School District of Upper Chichester Township, M. H. Young, Boothwyn, Pa. Brick, cement block, 1 story, 32x24 feet.

Borough Line, between Markley to New Hope street, East Norriton Township, Pa. Work contemplated. Architect, private plans. Owners, Borough of Norristown, F. Lester Smith, Norristown, Pa. Paving.

Paving, Ryers avenue, Cheltenham, Pa., from Myers avenue to Cottman street. Owners taking bids due August 14th at 6.30 P. M. Engineers, Albright & Mebus, 112 South Easton road, Glenside, Pa. Owners, Commissioners of Cheltenham Township, Harold C. Pike, Secretary, Elkins Park, Pa. Cement, concrete, 2,510 feet. Certified check, 5 per cent. Deposit, \$10. Refund, \$5.

Waterville Bridge No. 89, Ridley Creek, on line of Chestnut street, Chester, Pa. Low bidder: C. R. Camp, 10 South Eighteenth street, Philadelphia, \$74,400. Engineer, George Wright, Media, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Reinforced concrete, two 50-foot reinforced girders span, 40-foot roadway.

Paving, Norristown, Pa. Low bidders. Owners, Borough of Norristown, F. Lester Smith, Norristown, Pa. Marshall street, Suburban Construction Co., Ardmore, Pa., \$26,930.88. Blackberry and Rapp alleys, A. Hurst Weaver, Norristown, Pa. \$3,039.60.

Road Work, Pennsylvania. Owners taking bid sdue August 15th at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Allegheny County, R-70, Sec. 4B1, A-3758A, 4358. Harmar Township, 804 feet. One course reinforced concrete. 1,059 feet, one course reinforced concrete and vitrified brick pavement. Certified check, \$1,000.

Berks County, R-141, Bethel Township, 24,563 feet. One course reinforced concrete, (2) reinforced concrete bridges. Certified check, \$3,500.

Juniata County, R-193, Beale and Milford Townships, Mifflin Borough, 25,410 feet. Bituminous surface treated macadam surface course, (1) reinforced concrete beam bridge. Certified check, \$3,000.

Lawrence County, R-315, Shenango Township, 568 feet. One course reinforced concrete, (1) reinforced concrete arch bridge. Certified check, \$500.

Lawrence County, R-614-1, Hickory, Wilmington and Washington Townships, 15,980 feet. One course reinforced concrete, 420 feet grading and drainage. Certified check, \$2,500.

Montgomery County, R-198, Upper Moreland, Upper Dublin and Abington Townships, 7,351 feet. One course reinforced concrete. Certified check, \$1,500.

Somerset County, R-52 Spur, Sec. R 2, A-6423, 5147, Benson Borough, Paint Township, 9,397 feet. One course reinforced concrete, 600 feet grading and drainage. Certified check, \$2,000.

Washington County, A-5763, Robinson Township, 10,392 feet. One course reinforced concrete. Certified check, \$2,000.

Erie County, Route 87, Harbor Creek Township, Wesleyville Borough, bridge, 1 span, reinforced concrete arch, excavation, reinforced concrete. Certified check, \$1,000.

Juniata County, Route 32, Fermanaugh Township, bridge, excavation, one course reinforced concrete pavement, concrete, plain steel bars, (1) span. Certified check, \$1,000.

Venango County, Route 65, over Sandy Creek, Rockland and Cranberry Townships. (2) Span, excavation, one course reinforced concrete pavement, concrete, plain steel bars,

fabricated structural steel. Certified check, \$1,000.

Owners taking bids due August 16th at 10 A. M.

Allegheny County, R-72, Sec. 5, R-389, Shaler Township, 6,489 feet. One course reinforced concrete. Certified check, \$2,000.

Bedford County, R-222, Sec. 4, Bedford, East St. Clair and W. St. Clair Townships, 38,196 feet. One course reinforced concrete, (5) reinforced concrete bridges. Certified check, \$7,000.

Centre County, R-107, Sec. 4, Spring and Boggs Townships, Milesburg Borough, 8,895 feet. One course reinforced concrete, (1) reinforced concrete bridge. Certified check, \$2,000.

Clearfield County, R-401, Sec. 1, Gulich and Woodward Townships, Houtzdale Borough, 13,290 feet. One course reinforced concrete, (1) reinforced concrete slab bridge. Certified check, \$2,000.

Franklin County, R-588, Washington and Quincy Townships, 27,969 feet. Bituminous surface treated macadam surface course, (2) reinforced concrete beam bridges. Certified check, \$3,000.

Indiana County, A-6284, West Wheatfield Township, 16,384 feet. One course reinforced concrete. Certified check, \$2,000.

Lehigh County, R-555, Whitehall Township, 13,856 feet. One course reinforced concrete, (1) reinforced concrete beam bridge. Certified check, \$2,500.

Mercer and Trumbull Counties, A-6220, South Pymatuning Township, Pennsylvania, and Hartford Township and Orangeville Borough, Ohio, 9,426 feet. One course reinforced concrete, (1) reinforced concrete slab bridge.

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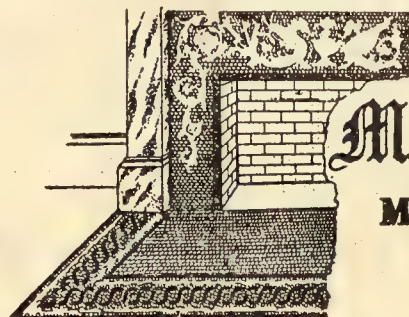
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Certified check, \$1,500. Bids will be received August 19th by Trumbull County Commissioners at Warren, Ohio, for portion located in Ohio.

Erie County, R-85, Conneaut Township, bridge, (1) span, steel truss, excavation, steel bars, concrete, fabricated structural steel. Certified check, \$1,500.

Greene County, R-451, Sec. 1, Jefferson Township, bridge, (2) spans, reinforced concrete, excavation, plain steel bars. Certified check, \$500.

Greene County, R-112, Sec. 4A, Cumberland County, bridge over Muldy Run, (2) span, reinforced concrete, excavation, plain steel bars, cement. Certified check, \$500.

Northumberland County, R-161, Sec. 5, Mt. Carmel Borough and Mt. Carmel Township, bridge, over tracks of P. R. R. and Lehigh Valley R. R. and over Shamokin Creek. Excavation, concrete, fabricated structural steel, plain steel bars, concrete piles. Certified check, \$3,500.

Perry County, R-293, Greenwood Township, bridge, (2) spans, concrete, excavation, plain steel bars (over Cocolamus Creek). Certified check, \$1,000.

Lawrence County, R-233, Scott Township, bridge, (1) span, concrete, excavation, plain steel bars. Certified check, \$1,000.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Monroe County, A-5767, Jackson Township. Bituminous surface treated macadam surface course. Fulton Construction Co., Lancaster, Pa., \$63,825.40.

Washington County, R-247, Sec. 13, New Eagle Borough. One course reinforced concrete. J. F. Patterson, Donora, Pa., \$34,197.10.

Lackawanna County, A-5702, Blakely Borough. One course reinforced concrete. John Booth, Inc., Carbondale, Pa., \$22,196.58.

Schuylkill County, R-718, R-161, Spur, Butler Township, Ashland Borough. One course reinforced concrete. Kulpmont Construction Co., Kulpmont, Pa., \$59,160.41.

Road Work, Pennsylvania. Low bidders. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Montgomery County, Route 646, Horsham Township. One course reinforced concrete. Graham Construction Co., Rothville, Pa., \$171,858.

Indiana County, A-5461, Montgomery Township. One course reinforced concrete. L. R. Mathias, Altoona, Pa., \$79,175.

Lackawanna and Wayne Counties, R-171-172-335, Jefferson and Salem Townships. One course reinforced concrete. Jacob J. Leimbach, Ashland, Pa., \$224,132.

Lycoming County, R-266, Porter, Watson and Cummings Townships, grading and drainage. A. A. White, Inc., Lebanon, Pa., \$141,508.

McKean County, R-469, Bradford Township, bridge and approaches over Lewis Run. One course reinforced concrete, excavation, pavement full width construction, concrete, fabricated structural steel. Whittaker & Eichl Co., Union Trust Building, Harrisburg, Pa., \$25,290.

Lancaster and Berks Counties, R-518, A-5581, Broeknock Township. Grading and drainage. Kutztown Construction Company, Kutztown, Pa., \$128,999.

Road Work, Pennsylvania. Low bidders. (August 2nd letting.) Owners, Pennsylvania Department of Highways, Jas. L. Stuart, Secretary, Harrisburg, Pa.

Dauphin and Lancaster Counties, R-219, Londonderry, Mt. Joy and West Donegal Townships. One course reinforced concrete. L. M. Hutchinson, Altoona, Pa., \$234,197.

Armstrong County, R-71, Sec. 2, Worthington Borough, West Franklin Township. One course reinforced concrete. Rinehart Bros., East Liverpool, Ohio, \$30,483.

Chester County, R-147, North Coventry

Township. One course reinforced concrete. Dalton Bros., Paloli, Pa., \$7,795.

Huntingdon County, R-192, Sec. R-1, Brady Township. One course reinforced concrete. R. C. Harvey, Lebanon, Pa., \$59,620.

Lycoming County, A-6485, Loyalsock Township. One course reinforced concrete. A. W. Hinaman, Williamsport, Pa., \$34,877.

Mercer County, R-213, Sec. 1, Perry, Fairview and Coolspring Townships, Mercer Borough. One course reinforced concrete. Grading and drainage. Burd Construction Company, Canton, Ohio, \$510,001.

Montgomery County, R-146, Sec. 5, Pottstown Borough. One course reinforced concrete. W. R. Folfinger, Norristown, Pa., \$44,539.

Potter County, R-236, Sec. 1, Sharon Township. One course reinforced concrete. F. E. Winter, Erie, Pa., \$114,246.

Washington County, R-118, Sec. 5, Charleroi and Spoers Boroughs. One course reinforced concrete. One course reinforced concrete and vitrified brick pavement. Donora Construction Company, Donora, Pa., \$93,155.

Indiana County, R-189, Sec. 2, A-6500, North Mahoning, South Mahoning and East Mahoning Townships. One course reinforced concrete, grading and drainage. McHugh Bros., Springfield, Pa., \$401,691.

Greene County, Route 451, Monongahela Township, Bridge over Whitely Creek. Concrete, plain steel bars. F. E. Trimpey, Casselman, Pa., \$30,465.

Lancaster County, R-215, East Lampeter, Leack, Sadsbury, Paradise and Salisbury Townships. One course reinforced concrete. John H. Swanger, Lancaster, Pa., \$487,257.

Washington County, R-118, Sec. 3, A-5911, Somerset and West Bethlehem Townships, Ellsworth and Cokeburg Boroughs. One course reinforced concrete, grading and drainage. Dorsey Construction Company, Findlay, Ohio, \$323,203.

Hotel, Illinois avenue, Atlantic City, N. J. Contract awarded Victor Gondos, 5 South Tennessee avenue, Atlantic City, N. J. Architects, Price & Walton, 119 South 4th street, Philadelphia. Owner, name withheld. Brick, lime stone, steel, 10 stories and basement, slag heat, electric light, metal lath, tile work, roof, oak and pine and cement floors, steam bond, ornamental iron work.

Pennsylvania

Contracts Awarded

Hotel (alts. and add.), Harrisburg, Pa. Contract awarded O. L. Armiger, 1507 South Cameron street, Harrisburg, Pa. Architect, B. E. Starr, 7 South Second street, Harris-

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burg, Pa. Owners, Martin's Hotel, 433 Market street Harrisburg, Pa. Brick, steel, one story addition, 22x16 feet, tin roof, tile and linoleum floors, electric work, tile work, kitchen equipment, alterations.

Municipal Building (add.), Upper Darby, Pa. Contracts awarded. General, Jones-Redditt Co., McClatchey Building, Upper Darby, \$310,988. Electric, O. W. Lynch, 5743 Ogontz avenue, Philadelphia, \$6,870. Plumbing, Hughes Brothers, Upper Darby, Pa., \$19,233. Heating, Crisman & Quillman, Norristown, Pa., \$15,895. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Commissioners of Upper Darby Township, Upper Darby, Pa. Reinforced concrete, brick, granite, limestone, steel, 128x58 feet, wing 50x75 feet, 3 stories and basement, demolition, excavation, hollow tile, structural steel, iron work, linoleum, cork, terrazzo, composition floors, steel sash, marble and tile work, sheet metal work, elevator entrances, vault doors, bronze work, carpentry and mill work, metal lath, plastering, painting, glazing, hardware, bond, concrete work, iron stairs, area gratings, composition roof, skylights, kalamein doors, bronze work, wall finish, hardware (plumbing, heating, electric, elevators, ventilation, screens separate bids).

Junior High School, near Swedeland, Pa. Contract awarded. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Upper Merion Township, A. Hays Hill, Port Kennedy. Brick, steel, limestone, 2 stories and basement, 217x108 feet. General, Stoneback & Nace, Quakertown, Pa., \$155,290. Plumbing, Crisman & Quillman, Norristown, Pa., \$11,600. Electric, O. W. Lynch, 5743 Ogontz avenue, Philadelphia, \$7,900. Heating, American Heating & Ventilating Co., Schaff Building, Philadelphia, \$30,000.

Mining Building, State College, Pa. Contract awarded W. R. Dougherty, 1608 Sansom street, Philadelphia. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, State College, R. B. Hetzel, on premises. Brick, limestone, granite, 3 stories and basement, built-up roof, wood deck roof, linoleum and cement floors, metal lath, tile and marble work, terrazzo work, rolled steel sash and skylights, roof ventilators, waterproofing, bond, casement windows, ornamental iron.

Hospital, Lancaster, Pa. Contract awarded Herman Wohlsen, Woolworth Building, Lancaster, Pa. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owners, Osteopathic Hospital, 17 South Lime street, Lancaster, Pa. Brick, steel, 4 stories, 86x31 feet, slag roof, concrete floors.

Bausman Grade School (alts. and add.), near Lancaster, Pa. Contracts awarded. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, School Board of Lancaster Township, L. R. Bair, President, 18 East Orange street, Lancaster, Pa. General, J. Irvin Brenner, 116 East Ross street, Lancaster, Pa., \$6,832. Plumbing, P. E. Gutfleisch, 358 North Queen street, Lancaster, Pa., \$1,487. Heating, P. E. Gutfleisch, 358 North Queen street, Lancaster, Pa., \$2,196. Electric, J. W. Lippold, 107 West King street, Lancaster, Pa., \$281.80.

Residence and Garage, near Phoenixville, Pa. Contract awarded J. Morris Rossiter, Wayne, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Gerry M. Cox, 1421 Chestnut street, Philadelphia. Stone, 2½ stories, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Mechanical and Administration Building, near Doylestown, Pa. Contract awarded John S. Bailey & Bro., Doylestown, Pa. Electric, Elias Nusbaum & Brother, 2023 Sansom street,

Philadelphia. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, National Farm School, S. B. Samuels, Doylestown, Pa. Stone, brick, cinder block, stucco, 2 stories, 100x50 feet, slate roof, linoleum floors, vacuum heat, metal lath, tile and terrazzo work, rolled steel sash and skylights, kalamein doors, dampproofing, limestone, blue-stone.

Residence and Garage, Allentown, Pa. Contract awarded W. H. Gangwere, A. N. B. Building, Allentown, Pa. Architects, Karcher & Smith, 1520 Locust street, Philadelphia. Owner, John Saeger, Allentown, Pa. Stone, 2½ stories, vapor heat, electric light, tile work, slate roof, hardwood floors.

School (add.), Johnson avenue, Upper Chester Township, Pa. Contracts awarded Sennett Brothers, Boothwyn, Pa. Plumbing and heating, W. T. Fowden, Chester, Pa. Electric, John R. Longhead, Chester, Pa. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owners, School District of Upper Chester Township, M. H. Young, Boothwyn, Pa. Brick, cement block, 1 story, 32x24 feet, asphalt roof, slate blackboard, bond.

Residence, Reading, Pa. Contract awarded Wyomissing Development Co., 832 Penn avenue, Wyomissing, Pa. Architect, W. H. Dechant, 632 Washington street, Reading, Pa. Owner, R. E. Pendergast, 43 North Sixth street, Reading, Pa. Brick, 2½ stories, slate roof, electric light.

Store, Market street, Harrisburg, Pa. Contract awarded O. L. Armiger, Camp Hill, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Hyman Morrison, 3314 North Second street, Harrisburg, Pa. Cast stone, brick, steel, 3 stories, 30x120 feet, composition roof, maple floors, city heat, electric light, metal lath, tile work.

Residence (alts. and add.), Reading, Pa. Contract awarded J. J. Coyle, Shillington, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owner, E. E. Frederick, care of architect. General interior alterations, tile work, hardwood floors, Warren Webster heat, electric light.

School (alts.), Northampton, Pa. Contract awarded Tamaqua Construction Co., Tamaqua, Pa. Plumbing and heating to J. M. O'Donnell, Quakertown, Pa. Architect, G. C. Freeman, 24 North Sixth street, Reading, Pa. Owners, Our Lady of Hungary Roman Catholic Parish, Rev. P. J. Repchik, Pastor, Northampton, Pa. Brick, stone, composition roof, asphalt floors, electric light, new plumbing.

Contract No. 3, West Plaza Approach, Com-

pletion of Soldiers' and Sailors' Memorial bridge, Harrisburg, Pa. Contract awarded James McGraw Co., Commercial Trust Building, Philadelphia, \$722,657. Architects, Gehron & Ross, 101 Park avenue, New York City. Consulting engineers, J. E. Greiner Co., Lexington Building, Baltimore, Md. Owners, Commonwealth of Pennsylvania, B. E. Taylor, Capitol Building, Harrisburg, Pa.

Overhead Bridge, 3935, Route 142, Lincoln Highway, West of Coatesville, Pa. Contract awarded T. J. Foley Co., 1825 Cypress street, Philadelphia. Engineer, E. R. Temple, Engineer of Bridges and Buildings, Pennsylvania Railroad, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company and State Highway Department, care of Pennsylvania Railroad, Broad Street Station, Philadelphia. Steel, concrete, 157x92 feet, steel and reinforcing.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Somerset County, R-119, Sec. R-1, Jenner Township. One course reinforced concrete, grading and drainage. D. E. Keller & Son, Somerset, Pa., \$57,979.10.

Allegheny County, R-257-2, Robinson and North Fayette Townships. One course reinforced concrete. J. Lee Plummer, Johnstown, Pa., \$281,907.

Clearfield County, R-234, Sec. 6, Bigler and Beccaria Townships, Glen Hope Borough. One course reinforced concrete. John S. Teeter, Taneytown, Md., \$205,256.39.

Delaware County, R-599, Bethel and Upper Chichester Townships. One course reinforced concrete. Benjamin Foster Co., Twentieth and Venango streets, Philadelphia, \$113,362.58.

Washington County, R-545, Sec. 5, Cecil Township. One course reinforced concrete. Hardy & Rankin Co., Canonsburg, Pa., \$62,314.20.

Elk County, R-99, Spur Sec. 1, Fox and Jay Townships. One course reinforced concrete. Charles H. Fry Construction Co., Erie, Pa., \$187,274.74.

New Jersey Construction News

Bank Building, Point Pleasant, N. J. Sketches in progress. Plans ready for bidders about September. Architects, Tilghman Moyer Co., 141 North Ninth street, Allentown, Pa.

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Owners, Point Pleasant Beach National Bank, Point Pleasant, N. J. Brick, steel, 1 story and basement.

School (add.) (Lawn School), Elk Township, Gloucester County, N. J. Plans in progress. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Elk Township School Board, J. A. Davis, President, Monroeville, N. J. Frame, 1 story, 2 rooms, shingle roof, pine floors, electric work.

Apartment House, Hood road, Haddon Heights, N. J. Plans in progress. Ready for bids in 3 weeks. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, name withheld. Brick, steel, stone, 3 and 4 stories, 255x41 feet, wing 38x66 feet, 2 wings, 38x40 feet, garage, 83x38 feet, slag roof, hardwood floors, tile work, electric light.

Residences (7 pair), Haddon Heights, N. J. Owner taking bids. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, E. B. Bisson, 510 North Thirty-fourth street, Philadelphia. Stone, brick, 2½ stories, 15x38 feet, hardwood, pine floors, electric light, tile work, hot water heat.

Club House, Cooper, Baird, Bridge Boulevard, Camden, N. J. Architects taking bids due August 21st. Architects, Lackey & Hetzel, 544 Federal street, Camden, N. J., and Paul Cret, Otis Building, Philadelphia. Owners, City Athletic Club, P. H. Harding, Camden, N. J.; C. W. Russ, Chairman, care of Armstrong Cork Co., Camden, N. J. Brick, steel, concrete, 10 stories, 450x114 feet.

Fetter School, Third, between Walnut and Mt. Vernon streets, Camden, N. J. All bids rejected. Architect, Thomas Walter Mayo, Camden, N. J. Owners, Board of Education, Albert Austermuhl, 121 South Twenty-seventh street, Camden, N. J.

Kitchen and Dining Hall Building, State Home for Boys, Jamesburg, N. J. Low bidders: Perth Amboy Construction Co., Perth Amboy, N. J., \$102,350. Plumbing, Adams & Mulready, New Brunswick, N. J., \$7,378. Heating, Burns, Lane & Richardson, New Brunswick, N. J., \$8,427. Electric, John T. Flanagan, Trenton, N. J., \$5,940. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, brick, limestone, steel, 1 story, balcony and basement, 150x73 feet, wing 48x80 feet, slate and slag roof, cement floors.

Bridges, Routes 5 and 6, over Grand avenue and the Northern Railroad of New Jersey, Palisades Park, Bergen County, N. J. Owners taking bids due August 19th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation excavation, borrow for roadway embankment, pre-cast crib wall, concrete, reinforcing steel, structural steel. Certified check, 10 per cent. Deposit, \$10.

New Jersey Contracts Awarded

Schools (2), Vine Street School, Irving Street School, Bridgeton, N. J. Contract awarded. Architects, Edwards & Green, 548 Federal street, Camden, N. J.; W. Custer, Bridgeton, N. J. Owners, Board of Education, H. Ryden Rice, City Hall, Bridgeton, N. J. Reinforced concrete, brick, steel, limestone. Vine Street School—Wills Bill Co., 1502 Locust street, Philadelphia, \$44,944; heating, Harry Knecht, Collingswood, N. J., \$11,600; plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, \$4,927; electric, Dalton Electric Shop, Millville, N. J., \$1,395. Irving Street School—Costanzo Brothers, 1339 Sheridan avenue, Camden, N. J., \$36,226; heating, Baldwin Ventilating Co., 1509 Arch street, Philadelphia, \$6,340; plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, \$3,395; electric, Dalton Electric Shop, Millville, N. J., \$875.

Catto School, \$34,900. South side Saunders st., West of Thirtieth st., Camden, N. J. Contract awarded Bennett & McLaughlin, 3434 Sansom street, Philadelphia. Architect, Thomas Walter Mayo, Camden, N. J. Owners, Board of Education, A. Austermuhl, 121 South Twenty-seventh street, Camden, N. J. Brick, reinforced concrete, steel, stone, 1 story, 105x60 feet, built-up roof, oak and composition floors, hollow tile, safety treads, roof ventilators, caulking, metal lath, terrazzo work, rolled steel sash, ornamental iron work, bronze work, demolition, concrete block. Plumbing, Charles Leopold, 1466 Haddon avenue, Camden, N. J. Heating, Harry Knecht, Collingswood, N. J. Electric, C. S. Wright, 2182 Federal street, Camden, N. J.

Bachelor Officers' Quarters (4 family apartments), Fort Monmouth, N. J. Contract awarded George H. Evans, 1416 Vine street, Philadelphia. Architect, private plans. Own-

ers, Office of the Constructing Quartermaster, Fort Monmouth, N. J. Slate roof, oak and pine floors, 2½ stories and basement, 170x60 feet, 100x28 feet, 2½ stories and basement, steam heat, electric light, metal lath, tile work.

Store and Office (add. and alts.), \$4,350. 424-26 North Sixth street, Camden, N. J. Contract awarded Essaness Corporation, Southwest Corner Fourth and Arch streets, Camden, N. J. Architect, private plans. Owners, Menal, Inc., Wilson Building, Camden, N. J. Brick, 1 story, 11x13 feet, slag roof, steam heat, electric light.

Church, Medford, N. J. Contract awarded Louis C. Mathis, Medford, N. J. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owners, Medford Church, Medford, N. J. Demolition, excavation, cement work, structural steel, carpentry and mill work.

Bridges, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Bridges (2), Route 34, Sec. 1, Matawan to Holmdel, over Cravelly Brook and over Willow Brook, Monmouth County. S. S. Thompson & Co., Red Bank, N. J., \$37,553.50. Bridges (2), Route 47, Sec. 3, over Tuckahoe River, (1) at Hunters Mills and (1) at Head of River, Atlantic, Cape May and Cumberland Counties. Hill Construction Company, Mt. Holly, N. J., \$30,735.60.

Miscellaneous Construction News

School, \$150,000. Talleyville, Del. Plans in progress. Owners will be ready for bids in a month. Architects, Gilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, Alfred I. DuPont, care of Delaware School Auxiliary, DuPont Building, Wilmington, Del. Fireproof, 1 story, 8 rooms and auditorium.

Residence, Brighton Shore, Del. Plans in progress. Architect will take bids next week. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, E. E. French, care of architect. Brick, 2½ stories, 58x27 feet, shingle roof, hardwood floors, tile work, electric light.

Garages (36) and Warehouse, Wilmington, Del. Owners will take sub-bids. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owners, Woodlawn Trustees, Rockford, Wilmington, Del. Concrete, block and concrete, 2 stories, 200x20 feet and 40x40 feet, built-up roof, concrete floors, electric light.

Semi-Detached Residences (8), \$6,000 each. Northwest Corner Twenty-ninth and Jessup streets, Wilmington, Del. Owners will build and are taking sub-bids due August 10. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owners, Liberty Housing Co., 205 West Fourth street, Wilmington, Del. Brick, 2½ stories, 19x35 feet, composition and tin roof, hardwood floors, Spanish tile, gypsum, slate, metal weather strip, tile work, hot water heat.

Residences (2), \$6,000 each. Sycamore street, West of Clayton street, Wilmington, Del. Owner will build and will take sub-bids. Architect, J. A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Mr. Ianni, Eighth and Lincoln streets, Wilmington, Del. Brick, 2½ stories, 24x30 feet, composition, tin and Spanish tile roof, hardwood floors, hot water heat, tile, metal weather strip.

Bungalow, \$10,000. Sycamore street, West of Clayton street, Wilmington, Del. Owner will build and will take sub-bids. Architect,

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J. A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Mrs. S. Cantera, Eighth and Lincoln streets, Wilmington, Del. Brick, 2 stories, 32x40 feet, Spanish tile and tin roof, hardwood floors, metal weather strip, tile work, hot water heat.

School, Sykesville, Carroll County, Md. Owners will be ready for bids this week. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Board of Education of Westminster Township, M. S. Unger, Westminster, Md. Brick, steel, tile, 2 stories and basement, 60x105 feet, slag roof, wood deck, maple floors, safety treads, roof ventilators, cast stone, bond, steel sash, steam heat, electric light.

Residences (10) (detached), Lancaster and Grant avenues, Wilmington, Del. Owners taking bids. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owners, Sloan Construction Co., 208 Market street, Wilmington, Del. Brick, 2 stories, 16x40 feet, slag and slate roof, hardwood and pine floors, electric light, hot water heat.

Miscellaneous Contracts Awarded

School Gymnasium, Master's Houses (2), Garage, Electrical Distribution Building, \$500,000. Near Middletown, Del. Contract awarded Turner Construction Co., 1700 Walnut street, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Episcopal Church School Foundation, Inc., near Middletown, Del. Stone, old English, fireproof, 2½ stories, irregular in size, slate roof, cement and pine and oak floors, vapor heat, electric light, tile work, fire doors, steel casements.

Grade School, Minquadale, Del. Contract awarded Jones-Redditt Co., McClatchey Building, Upper Darby, Pa., \$29,000. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, County Building, Wilmington, Del. Brick, 1 story, 117x43 feet, timber roof construction.

Boiler House and Turbine House, Utica, N. Y. Contract awarded Aberthaw Construction Co., Boston, Mass. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, S. Kennandoe Rayon Corporation, Utica, N. Y. Brick, reinforced concrete, steel, 1 story, 100x100 feet, gypsum slag roof, bond, concrete floors, caulking, steel partitions, rolled steel sash.

Residence, Claymont, Del. Contract awarded William M. Francis Co., DuPont Building, Wilmington, Del. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owner, John J. Rascob, Claymont, Del. Brick, 2½ stories, 63x100 feet, 2 wings, each 14x24 feet, slate roof, hardwood floors, hot water heat, electric light, tile, marble.

Residence and Garage, 916 Blackshire road, Wilmington, Del. Contract awarded W. F. Hadley, Claymont, Del. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, W. Christy Pryor, 811 North Harrison street, Wilmington, Del. Stone, brick, 2½ stories, 26x33 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Club (add.), Wilmington, Del. Contract awarded A. S. Reed & Brother, 702 Orange street, Wilmington, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owners, Wilmington Whist Club, care of architect. Brick, 1 story, 28x100 feet, slate roof, rubber tile floors, heating extension, electric light, bowling alley.

Residence and Garage, \$12,500. 2302 Seymour street, Wilmington, Del. Contract awarded Charles A. Eckman, 821 Orange street, Wilmington, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, George K. Landon, 1810 Wawaset avenue, Wilmington, Del. Stone, cinder block, 2½ stories, 31x28 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work.

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SOLVING THE APARTMENT HOUSE ANTENNA PROBLEM

With the growing popularity of radio in cities, the apartment house antenna problem has assumed serious proportions. This problem has to do with the unsightly maze of tangled antenna wires and poles seen on the roofs and down in the court yards of America's apartment houses today. Yet tenants must have their radio. No landlord dares interfere with the pur-

suit of happiness by his tenants. Each tenant is usually left to follow his own ideas regarding a suitable antenna. And the landlord is helpless in the matter, since any objection to radio these days is tantamount to an empty apartment house.

Indoor antennas, socket-antenna devices and loop antennas are not a solution of the problem. Experience has shown that these devices are usually unsatisfactory in the modern fire-proof apartment house, owing to the steel construction. Also, such devices are subject to excessive inductive interference from electric motors, elevator contractors, electric refrigerators, electric household appliances, and so on.

Having specialized in antenna problems of all kinds for several years past, three well-known radio engineers were assigned the task of evolving a simple, inexpensive and altogether practical antenna system for the average apartment house. These engineers, Ernest V. Amy, Julius Aceves, and Frank King, operating as the consulting engineering firm of Amy, Aceves, & King of New York City, undertook an exhaustive study of the subject, made many experiments with various devices and arrangements, and finally developed and patented an entirely new antenna circuit arrangement which meets all requirements.

The basis of the new apartment house antenna system is a device known as the multi-coupler. This comprises a bakelite case 6 inches long and 1½ inches in diameter, containing the necessary circuit components. The case has connecting lugs at top and bottom and a binding post on the side. There is nothing to wear out or to renew in the multi-coupler. It provides satisfactory service over many years, without additional expense of any kind.

With the multi-coupler as the basis,

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the new apartment house antenna system is simplicity itself. As many as 25 radio sets may be operated on a single or common antenna by means of one multi-coupler for each radio set, but a fair average of 12 to 15 is followed in practice. Briefly, a common antenna is installed for every 12 or 15 radio sets in the apartment house. The down lead from the common antenna, instead of being brought to a single radio set as in usual practice, is brought down alongside the wall of the house and close to a vertical row of windows, thus catering to the needs of a row of apartments. The down lead carries a multi-coupler at the level of each floor, or near the window for that floor. There are as many multi-couplers as there are floors in the vertical row. The binding post of the multi-coupler serves as the antenna connection for the radio set of the apartment. At the bottom of the down lead there is installed a lightning arrester with a high resistance shunted across it, so that the antenna system is protected from lightning in accordance with the requirements of the fire underwriters.

With this antenna system, each radio set owner has the use of an excellent antenna of far better characteristics than the usual antenna of today. Furthermore, the multi-coupler serves as a filter, passing mainly the broadcast frequencies to the radio set. Therefore, inductive interference of electric motors and household appliances is reduced to a minimum. However, when short-wave reception or television reception is desired, the apartment house tenant simply winds four or five turns about the down lead, above the multi-coupler, and thereby secures the advantages of an outdoor antenna about 20 feet long.

In the average apartment house installation of the multi-coupler antenna system, each row of apartments is served by a common antenna. For a neat arrangement, the common antennas can be arranged in the umbrella form, supported at the center by a pole, water tank or other suitable structure. There is a down lead for each vertical row of apartments.

Several apartments in New York City have already been equipped with the multi-coupler antenna system and highly satisfactory results have been obtained. It will be noted that this system lends itself to old as well as new apartment houses, since the entire installation may be placed on the outside of the building, if so desired. The cost of the system, both for materials and for labor, is remarkably low. The installation is neat, inconspicuous, yet exceedingly handy for each tenant. There is nothing to replace or service, so that there is no maintenance cost.

All in all, the apartment house antenna problem appears to be satisfactorily solved for owner and tenant alike. The pursuit of happiness in radio terms can continue unhampered.

WHY PRE-QUALIFICATION SHOULD BE REQUIRED OF ALL BIDDERS ON PUBLIC WORKS CONTRACTS

By WILLIAM T. FIELD, *Consulting Engineer*

To require a contractor to be qualified before receiving a contract for public work is only logical. He should be not only experienced and reliable, but financially able as well.

For a contractor to be really qualified, it should not merely be required that he furnish a surety bond or that he have sufficient financial resources. Generally speaking, it is not difficult for a contractor to obtain a surety bond on a contract; and in substance all that a surety bond says is that somehow, sometime, the work contracted for will be completed.

It has been suggested that bonds be furnished to guarantee payments for labor and materials, in addition to a performance bond, but actually the only ones who really profit by such bonds are those who sell them.

There are twenty-four state highway departments and many municipalities which have adopted the policy of qualifying bidders before permitting them to enter into a contract for construction. This policy eliminates many difficulties that naturally attend public work. Most contractors who are not qualified and responsible so far as that particular work is concerned will not attempt to bid where qualification is required. Court decisions do not consider that the mere furnishing of a surety bond qualifies a bidder to receive a contract. In fact, many decisions have declared specifically to the contrary. Surety companies have often declared that they have never presumed to guarantee the responsibility of a contractor, but merely that, in event of default, they would assume certain liabilities which differ greatly under conditions.

The municipality should know the actual financial status of a bidder, in substance his liabilities and his assets, rather than be compelled to take his apparent financial standing as represented by his certified check and bank balance.

Qualifying Should Be Done Before Bidding

To attempt to properly qualify contractors after bids are opened places the officers or board in a position where they are charged with favoritism, unfairness and dishonesty whenever it becomes necessary to reject a low bidder as not responsible.

Certainly it is not fair to a bidder to require qualification after bidding, as there is usually considerable work and expense entailed in properly preparing a bid. Then, too, it places a contractor in an embarrassing position, as well as the awarding official or board, if it is declared that the apparent low bidder is not the acceptable lowest, responsible bidder on a job.

Should not the same amount of care and consideration be given in determining who is a responsible bidder on public work, where we are spending the taxpayer's money, as we would give to the bidder on private work? The prequalification of contractors is not a new idea. It has been in operation for many years with private interests, public service corpora-



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tions and individuals. There is hardly a public official who would consider awarding a personal contract to a party from whom he did not have confidence that he would receive a good job. The contractor's qualifications should certainly be predetermined.

Necessary Requirements

The first of these qualifications is the contractor's skill or ability, which is a factor often overlooked in the awarding of both public and private contracts. Even the engineering profession has been guilty at times of assuming that any person equipped with plant and a little money or credit could execute a complicated construction project. Obviously, there is no mathematical formula for computing a bidder's skill, but a reasonably accurate idea can be gained from his record of previous construction projects successfully completed.

The second factor in qualifying is the bidder's reputation for honesty in his dealings with owners and other business connections, especially with reference to the quality of work performed—not that the awarding official is interested in his reputation merely as such, but that he may make up his mind whether the bidder, if awarded the contract, will comply therewith and deliver the quality of work for which he is to be paid. The fact does not seem to be generally recognized that no amount of supervision and inspection can force an honest job out of a dishonest contractor, or a well-constructed job out of a contractor who is incompetent. This second factor, like the bidder's skill, is not susceptible of accurate measurement, but a sound opinion can be formed by awarding officials through the exchange of information with owners, engineers, architects, surety companies and others with whom the bidder has had dealings.

The third factor of qualifying, and the only one of the three on which the bidder can be accurately gauged, is financial ability. The measurement of a business man's responsibility by means of his financial statement is a process dating from time immemorial. It is used or presumed to be used in every important industry; though the construction industry and nearly everyone who deals with it, especially on public work, has largely ignored this important item and mostly because of a misconception of what constitutes the lowest responsible bidder. A childish belief seems to have gained footing that any individual who can assemble a pile of equipment, buy material on credit and produce a surety bond, is competent to receive an important contract.

Essentials of Financial Responsibility

The plain facts in the case of the average type of bidder, as revealed by the records of construction companies, are that unless the bidder owns his equipment outright, has a reasonable amount of cash and a contract price representing a reasonable profit, he is doomed to failure on any sizeable job as soon as he signs on the dotted line. For every kind of construction and every set of conditions, there is a ratio of liquid assets to volume of work under contract, which cannot be exceeded. So far no one knows exactly what these ratios are, but they are receiving study from both engineers and contractors. Eventually this study will produce some recommendations which will be invaluable, not only to awarding officials, but also to the contractors themselves.

Equipment and organization are of course important factors, but for purposes of this discussion they may be considered as elements of financial resource. If the bidder has sufficient financial backing to

purchase equipment and pay for a proper organization, it is probably safe to assume that he can secure them.

In exercising judgment, it is obviously necessary for an awarding official to consider not only whether the individual project is too big for the bidder to handle, but also whether in the sum total of his operations he has become over-extended. This common ailment of over-extension has probably caused more defaults than all other causes combined; and responsible contractors, both large and small, are fast appreciating the necessity of keeping within their proper limitations. However, it should be emphasized that the term "responsible contractor" has little reference to size, but indicates a contractor who can and will perform his contract and who maintains a proper balance between his resources and ability on one hand and the type and volume of his work on the other.

The responsible contractor has an investment in his business and a pride in his reputation as great as that of an engineer. Yet he sees contracts awarded to competitors who will default today and undermine him with dishonest competition in some other locality tomorrow. With each of these defaults, the responsible contractor sees public ill-will accumulate, not only against the irresponsible men, but against himself and his industry as a whole. These are some of the things that the engineer and the responsible contractor encounter as the result of conditions prevailing in the public construction field.

By pre-qualifying contractors, the responsibility is determined before the contractor receives the plans and submits his bid and then if any questions are raised, they can be decided.

One of the arguments against pre-qualification is that it will place too much

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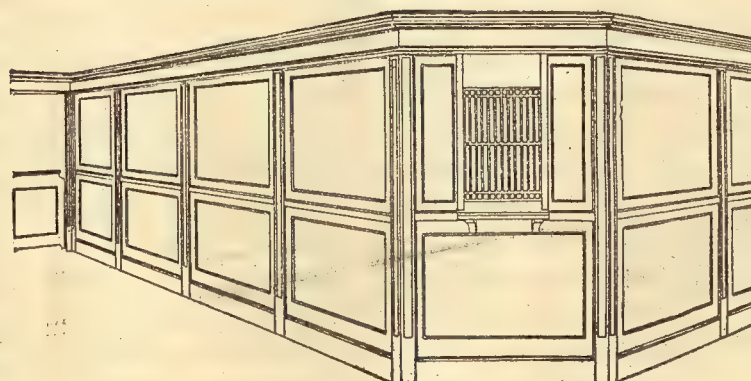
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responsibility upon the awarding officials, but this is just where the responsibility should rest. The municipality looks to these officials to see that its interests are protected, that the work is properly done in accordance with the contract, and that the taxpayers receive full value for their money. Why, therefore, should not the awarding officials be permitted to determine who the lowest responsible bidder is? No competent official should object to assuming his proper responsibility under pre-qualification; otherwise the responsibility is often placed upon an irresponsible contractor, although the awarding officials must accept the criticisms.

It has also been said that pre-qualification opens the door for dishonesty in the awarding officials by means of favoritism, unfairness, etc. However, an official who will be dishonest can work to better advantage under the present method of awarding than he can under pre-qualification where he assumes the responsibility. No statute will make such an official honest, and the sooner he is discovered and discharged, the better.

Another argument against pre-qualification has been that it makes a close corporation for the contractors, stifles competition and prevents an ambitious young man from starting in business or becoming a bigger contractor. Nothing is further from the fact.

Competition Not Prevented

The only contractors eliminated are those who are the bane of our municipalities and responsible contractors today. It is almost impossible, regardless of the amount of supervision and inspection, to secure a proper grade of work from such contractors. Quite often, because of the contractor's financial limitations, laborers employed on the work are either hampered in securing their pay or unable to do so. Not only does a bad credit situation of this kind prove embarrassing to the municipality, but it is the cause of considerable delay in the work itself.

Instead of stifling competition and preventing a young man from starting in business or becoming a bigger contractor, pre-qualification provides the best possible safeguard for such a contractor. It permits a young man with experience and some financial backing to qualify for such work as he is in position to handle; and as his experience and qualifications increase, the size of the work which he can bid on will increase. Pre-qualification protects him, not only from irresponsible contractors, but also from himself in over-expansion, and acts with the contractors as the Federal Reserve Bank does with the financial institutions—a balancing factor. Any contractor who believes himself discriminated against still has the right of a review and his day in court to prove his contentions.—*Associated Contractors.*

OLD HOMES MADE NEW

In every community there are many houses that are far removed from the present standards of architecture, construction and convenience. In fact, authorities estimate that there are approximately 12,000,000 such old houses which can be profitably modernized. When this is done, they are worthwhile old homes made *new*. One of these residences may be yours to make more desirable and comfortable for its occupants.

A home is, indeed, an investment which from the practical measurements of dollars and cents must not be allowed to deteriorate. Evidence of this is seen in the fact that home owners everywhere are finding it profitable to modernize their old properties. And because remodeling means always a greater resale value, it may even be considered as a form of insurance which the householder should carry to protect his family in event of any contingency that may force the sale of the house.

Modernizing Increases Property Values

This home modernization movement likewise offers an opportunity to beautify and develop residential communities. It also serves to attract other prospective home builders, thus increasing property values generally, with resultant benefits to the entire community. Modernizing any house is ultimately a community as well as a personal affair.

Ordinarily it is an easy matter to finance alterations, inside and out, because they usually increase the value of the house more than their cost. Here is what actually happened in Washington, D. C., when an old house was modernized: Although the mortgage company rated the house as absolutely valueless, the lot was appraised at \$5,000. The company, however, extended loans up to \$9,000 for carrying out the work of alteration. When the changes and additions were made, the house and lot were valued at \$14,000, and considered splendid security for the \$9,000 loan. The company explained further that the property now has a cumulative value which will amount in the near future to \$18,000—due entirely to the effect of the renovations. This is but one example; doubtless home owners in every community have had similar experiences.

It pays—from every human standpoint—to modernize the home. Thousands and thousands of homeowners have found modernizing to be a simple procedure, quickly accomplished, easily financed. They have found that modernizing pays, not only in money values, but in those equally important but intangible benefits—happiness, pride, social position, comfort, convenience, beauty, all the large and small factors which make home life worthwhile.

Concrete and Modernization

What of the materials used in modern-

ization? No matter what the size of the structure to be modernized, concrete finds a wide range of usefulness for making improvements that enhance the beauty and increase the utility and value of the property. The more strictly utilitarian uses of concrete include footings, foundations, floors, plaster, stucco, roofs, chimneys, fireplaces, walks, drives, garages, alley pavements and other home improvements that will increase the utility as well as the beauty of the property. Then there are numerous ways in which concrete may be employed to give a decorative touch to the home and its surroundings. In this group are lawn benches, bird baths, sun dials, flagstone walks, lily pools, flower beds, flower boxes, arbors, garden walls and other similar uses.

Concrete not only is structurally permanent, but its beauty and its character are enduring as well. Old houses, resurfaced with portland cement stucco, colored and textured, possess a built-in beauty. Stucco is but one of the concrete improvements it is possible to make when obtaining *new* homes from *old* houses.

Economy of Concrete Improvements

Along with their advantages of permanence and beauty, improvements made with concrete are decidedly economical. And when built, concrete improvements last, since concrete is a material which is durable, firesafe, rotproof and maintenance-free.

Some houses need only a few touches here and there to bring them up to date; others require more. It is astonishing what a decided difference a few slight changes make. The alteration of a front entrance or a porch—an old porch converted into a pleasant sun room—an old exterior made modern with portland cement stucco—a ramshackle roof made attractive and firesafe with concrete roofing tile or cement-asbestos shingles. Each dwelling presents its own separate problems and the modernization possibilities should be considered individually. Much or little modernizing can be done to suit the tastes and the pocketbook.

There is this to consider always in modernizing. When rebuilding or renovating, it is best to make permanent improvements. For modernization, to be real, must involve attention to fundamentals. Foundations, basement floors, bearing walls, fire-stops, footings for foundations—these and other more or less hidden elements must be considered before the final and apparent changes are undertaken. The best policy is—build soundly within and without. Judicious use of concrete and concrete products, it has been found, makes possible modernization on a sound structural basis, thereby eliminating the speculative element in the modernized house market.—*Associated Contractor.*

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 33
August 14, 1929

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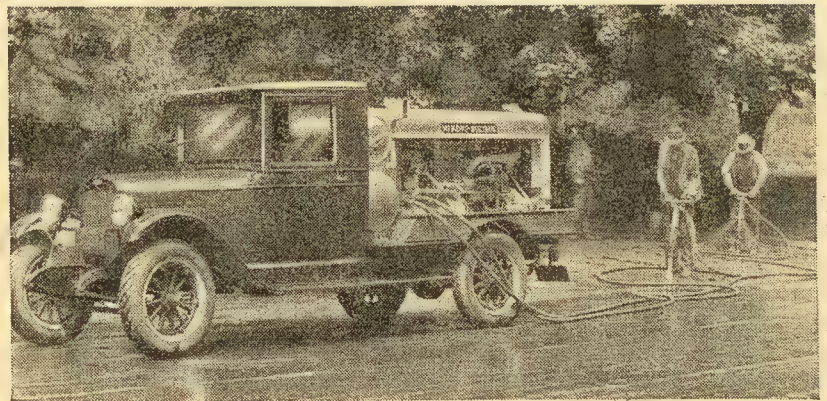
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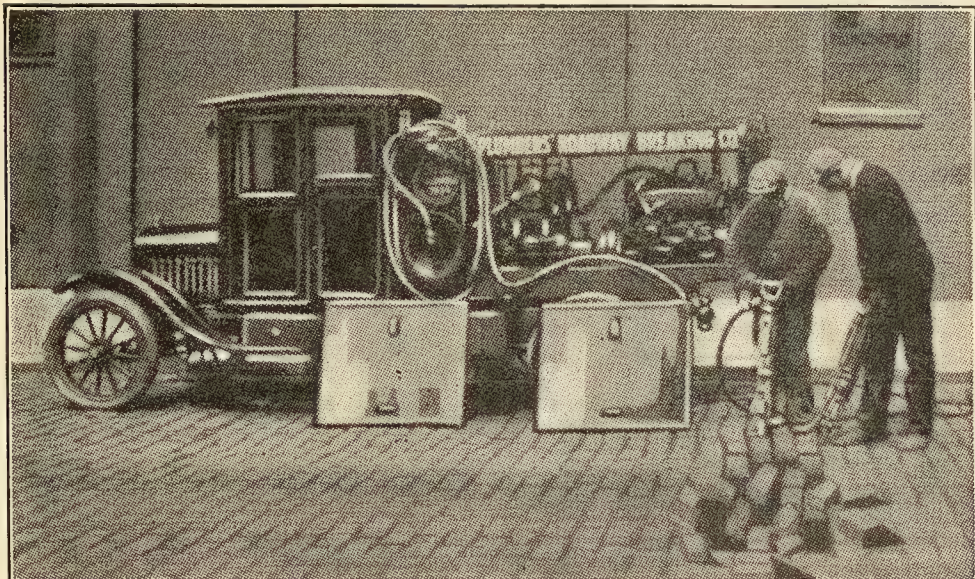
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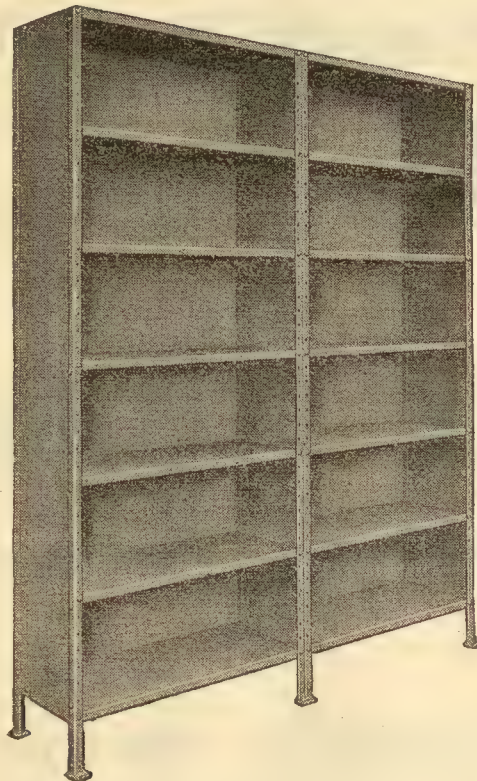
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Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
Number 33

PHILADELPHIA
August 14, 1929

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March 3, 1879.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Airport, \$2,000,000. Hog Island, Philadelphia. Project to be approved. Tentative plans drawn. Owners, City of Philadelphia, care of Mayor Mackey, City Hall, Philadelphia.

Residences (276), Fifty-seventh, Wanamaker, Fifty-eighth, South of Elmwood avenue, Philadelphia. Work contemplated. First unit to be started in about 2 weeks. Architect, private plans. Owners, Shapiro & Reed, 5230 Walnut street, Philadelphia. Brick, 2 stories.

Hospital (add.), 1514 North Fifteenth street, Philadelphia. Preliminary plans in progress. Architect, C. E. Wunder, 1520 Locust street, Philadelphia. Owners, National Stomach Hospital, Miss E. Williamson, on premises.

District Office Building, 4637 Frankford avenue, Philadelphia. Plans in progress. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, steel, 2 stories.

Hotel, near Philadelphia. Plans in progress. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. Fireproof, steel, 10 stories, 98x160 feet, slag roof, concrete floors, hollow tile, elevators, architectural terra cotta, electric work, tile work.

Residence, Midvale avenue, Germantown, Philadelphia. Plans about completed. Architect will be ready for general bids in 2 weeks. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Williard S. Boothby, 1515 Locust street, Philadelphia.

Stone, clapboard, 2½ stories, 35x90 feet, irregular.

Film Building, 1225-29 Vine street, Philadelphia. Plans in progress. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Stanley Company of America, Eleventh and Market streets, Philadelphia. Brick, steel, concrete, 6 stories, 50x140 feet, concrete slab, built-up roof, concrete floors, electric light, steel sash, kalamein doors, steel stairs.

Residence, West School lane, Germantown, Philadelphia. Architect taking bids due August 19th, 3 P. M. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Moses Brown, care of architect. Stone, steel, 2½ stories and basement, irregular in size, tile roof, oak, pine and cement floors (plumbing, heating, electric, tile, linoleum floors reserved), metal lath, bond, ornamental iron work, casement windows.

Funeral Parlor (alts.), 2504 West Lehigh avenue, Philadelphia. Architect taking bids due August 15th. Architect, F. V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, James J. Ryan, on premises. New limestone front, carpentry and mill work, plastering, painting, glazing, electric light, metal lath.

Store and Restaurant, 114-16 South Eighteenth street, Philadelphia. Architect ready for bids in a few days. Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia. Owners, Horn & Hardart, 204 South Warnock street, Philadelphia. Brick, 2 stories, 35x87 feet.

Sunday School, Tudor and Cresman streets, Philadelphia. Architect taking bids due August 15th. Architect, George Savage, Witherspoon Building, Philadelphia. Owners, Mayfair United Presbyterian Church, Rev. T. Pollock, 5034 Hazel avenue, Philadelphia. Stone, 2 stories and basement, 40x70 feet, slag roof, cement and maple floors, plumbing, steam heat, oil burner, electric light.

Store (alts.), 2107 Locust street, Philadelphia. Architects taking bids due as soon as possible. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owner, Miss Henrietta Malaky, care of architect. Copper bulks, carpentry and mill work, plastering, plate glass, painting, glazing.

Store Building, Sixty-ninth and Market streets, Philadelphia. Architects taking bids due August 15th. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Kershaw & Radey, Stonehurst, Pa. Brick, east stone, steel, 2 stories and basement, 33x63 feet, slag roof, maple, pine and cement floors, mill work, plumbing, painting, glazing, waterproofing, mosaic, architectural terra cotta, copper bars, steel partitions, steam heat, oil burners, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash, kalamein doors, bond, ornamental iron work, vitrolite or Sanyonyx, linoleum.

Residence and Garage, Stenton avenue, between Joshua road and Cold Point road, near Militia Hill. Architects taking bids due August 19th. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Mrs. Henry Jarrett, White-

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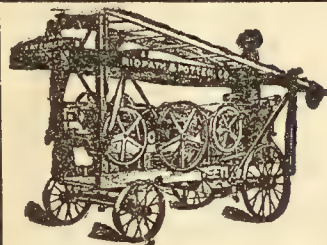
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marsh, Pa. Stone, steel, 2½ stories and basement, 86x18 feet, wing 29x61 feet, garage 25x31 feet, shingle roof, oak, pine and cement floors, metal lath, tile and marble work, bond, ornamental iron work, excavation, waterproofing, brick work, flagstone, limestone, area gratings, plastering, hardware.

Theatre, Stores (4), 20-30 Armat street, Philadelphia. L. D. Stipes, 126 Herman street, Germantown, Philadelphia, taking tentative sub-bids. Architect, Charles S. Parker, 5018 Schuyler avenue, Philadelphia. Owners, Motion Picture Guild, Inc., Finance Building, Philadelphia. Brick, steel, reinforced concrete, 1 story, 87x83 feet 5 inches, slag and tile roof, concrete floors, metal ceilings, heating undecided, electric light, metal sash and doors, galvanized iron plaster, copper bulks.

Gas Station, \$3,800. Southeast Corner Twenty-first and Chestnut streets, Philadelphia. Permit issued. Architect, A. C. Bieber, 1520 Locust street, Philadelphia. Owners, Paramount Service Co., Fifty-fifth and Market streets, Philadelphia. Brick, 1 story, irregular size.

Residences (2), \$6,600. 5526-28 Westford road, Philadelphia. Permit issued. Architect, private plans. Owner, Morris J. Levin, 550 East Olney avenue, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Demolition of Stone Building and Appurtenant Brick Building, South side Allen, West of Bryan street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, City Hall, Philadelphia. Owners taking bids due August 15th, 11 A. M. Specification, 117 City Hall.

Electric Work, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia. Owners taking bids due August 16th. Furnish new lamps, repairing, etc., streets, avenues, sidewalks, boulevards, etc., in Philadelphia. Certified check, \$1,200 for bid \$10,000 to \$35,000.

Grading, Drainage, Concrete Paving, Philadelphia National Cemetery, Haines and Limekiln pike. Owners taking bids due August 27th, 10 A. M. Certified check, 10 per cent. Owners, Commanding Office, Philadelphia Quartermaster, Twenty-first and Oregon avenue, Philadelphia.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Daggett, Race to Vine street, Marino Masse, 3936 North Reese street, Philadelphia, \$902.48. Sixth street, Southeast side of Eastwick, etc., Joseph Cicone, 5732 Westminster avenue, \$9,126.60. Sixty-first, Harley to Southeast of Eastwick, Joseph Cicone, 5732 Westminster avenue, Philadelphia, \$1,306.90. Eleventh

street, Champlost to Spencer, Mack Paving Co., Nicetown lane and C street, \$8,354.87. Asphalt resurfacing by heater method: Group No. 13, Municipal Paving Co., Second and Wingohocking streets, Philadelphia, \$37,378.58. Group No. 14, Barber Asphalt Co., 600 Arch street, Philadelphia, \$30,621. Group No. 15, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$30,688.90. Group No. 16, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$29,841.50. Group No. 17, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$28,440.50. Group No. 18, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$27,949.90. Group No. 19, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$26,302.34.

Group No. 20, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$26,959.98. Group No. 21, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$27,925.08. Group No. 22, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$26,864.86. Group No. 23, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$27,906.78. Improving shoulders and park area, etc., Curtis Brothers, State road, Philadelphia, \$46,546.45.

Bridges (2), Henry Avenue Bridge; West Avenue Bridge; Philadelphia. Owner taking bids due August 21st, 11 A. M. (S. T.) Note extension.) Paving, private road (Wheat-sheaf lane, Philadelphia.) Owner, Borough of Engineers and Surveys, Department of Public Works, City Hall, Philadelphia.

Store (alts.), \$4,500. 2627 Germantown avenue, Philadelphia. Permit issued. Owner, George Berger, on premises. Lessees, F. W. Woolworth Company, on premises. General alterations.

Residences and Garages (3), Allens lane between Green and Wissahickon avenue, Philadelphia. Plans in progress. Architect, Edwyn Rorke, North Glenside, Pa. Owner, George Stuempfig, care Germantown Theatre, Philadelphia. Stone, 2½ stories.

Pennsylvania Railroad, C. E. Walsh, 15 N. 32nd street, Philadelphia, taking bids due August 26th. No. 36 bars and shapes and plates; No. 37 steel plates; No. 38 wheels.

Store (alts.), 5717 Germantown avenue, Philadelphia. Architect taking bids due as soon as possible. Architect, Solomon Kaplan, 10 South 18th street, Philadelphia. Owner, Lionel Friedman, 15th and Locust streets, Philadelphia.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

School, Green and Cliveden streets, Philadelphia. Contract awarded Nelson Pedley Construction Co., 1510 Chestnut street. Architects, H. D. Dagit & Son, 1322 Race street, Philadelphia. Owners, St. Sagdalen Sophia Roman Catholic Church, Rev. M. A. Crane, on premises. Stone, limestone, granite, steel, 2 stories and basement, 160x36 feet, wing 97x61 feet, slate roof, cement and maple floors, hollow tile, plumbing, metal lath, tile, marble and terrazzo work, rolled steel sash, tin-clad doors, bond, ornamental iron work, iron stairs, bronze work, area gratings, roof ventilators, caulking, waterproofing, dampproofing, flagstone, excavation, concrete and cement work, plaster bond, hardware, alberne stone.

School (alts.), East Mt. Airy avenue and Boyer street, Philadelphia. Contract awarded W. R. Dougherty, 1608 Sansom street, Philadelphia. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, Holy Cross Roman Catholic Church, Rev. W. T. Brady, on premises. Interior alterations, concrete, mill work, steel folding partitions, plastering, metal lath.

Interior Finishing Control Room No. 206, Girard Point, Philadelphia. Contract awarded Cramp & Co., Denckla Building, Philadelphia. Architect, Edward B. Lee, Pittsburgh, Pa. Owners, Gulf Refining Co., Girard Point, Philadelphia. Ornamental plaster, plastering, concrete and cement work, terrazzo, ornamental iron work, architectural terra cotta.

Factory (alts.), 1811-27 Harlan street, Philadelphia. Contract awarded G. Thomas Holloway, 523 Ludlow street, Philadelphia. Architect, private plans. Owner, Benjamin Cohn, Liberty Building, Broad and Chestnut streets, Philadelphia. General interior alterations.

Store (add.), Germantown and Butler street, Philadelphia. Contract awarded L. D. Stipes, 126 Herman street, Germantown. Architect, Charles S. Parker, 5018 Schuyler avenue, Philadelphia. Owner, name withheld. Interior alterations and new bulks, plate glass.

Laundry and Power House, 4808-12 Market street, Philadelphia. Contract awarded A. Raymond Raff Contracting Co., 1635 Thompson street. Consulting engineer, H. J. Levinson, 1621 Sansom street, Philadelphia. Owner, Charles Kendrick, care of Quaker City Laundry Co., 48th and Locust Sts., Philadelphia. Brick, 2 stories and basement, 50x110 feet.

Residences (22), \$98,000, South side Tees-

dale street, East of Walker street, Philadelphia. **Residences and Stores (2)**, \$10,000. Teesdale and Walker and Teesdale and Cottage streets, Philadelphia. Contract awarded H. F. Dinkelacker, Ruan and Leiper streets, Philadelphia. Architect, private plans. Owners, Spear & Sinclair, 139 South Twelfth street, Philadelphia. Brick, 2 stories, 16x35 feet, and 2 stories, 17x35 feet, slag roof, pine and hardwood floors, hot water heat, electric light.

Store (add.), \$2,900. 1121 Walnut street, Philadelphia. Contract awarded P. Haibach Contracting Co., 1261 North Twenty-sixth street, Philadelphia. Owner, F. Fratandons, on premises. Brick, 1 story add., 21x14 feet 6 inches.

Residence and Store (add. and alts.), \$3,000. 5503 North Fifth street, Philadelphia. Contract awarded Schollen Construction Co., 5915 North Sixth street, Philadelphia. Architect, private plans. Owner, John Schoellon, on premises. Brick, second story add., 12x12 feet, general alterations.

Green House, \$2,500. North side Seville street, East of Ridge avenue, Philadelphia. Contract awarded J. Hillhouse, Irvington, N. J. Architects, King Construction Co., Towanda, N. Y. Owner, Andrew Pinkerton, 523 East Walnut lane, Philadelphia. Concrete and steel, 100x28 feet.

Store (alts.), \$5,000. 220 South Nineteenth street, Philadelphia. Contract awarded Wintz Brothers, 1618 Sellers street, Philadelphia. Architect, private plans. Owner, Bernard Davis, Nineteenth and Rittenhouse streets, Philadelphia. General alterations.

Garage (add.), \$4,000. 3805 Oak road, Philadelphia. Contract awarded F. Broome, 4010 Sansom streets, Philadelphia. Architect, private plans. Owner, L. S. Miller, on premises. Stone, 1 story add., 13x22 feet, electric light, cement floors.

Shop, \$2,000. Southwest Corner Sixth and Ruseomb streets, Philadelphia. Contract awarded M. Shoemaker, 5724 North Marsden street, Philadelphia. Architect, private plans. Owner, Charles Voetell, 5728 North Marsden street, Philadelphia. Brick, 1 story, 20x20 feet, slag roof, electric light.

Store and Residence (alts.), \$2,000. 3112 Kensington avenue, Philadelphia. Contract awarded Schilling Bush Co., 26 East Forty-second street, New York. Architect, private

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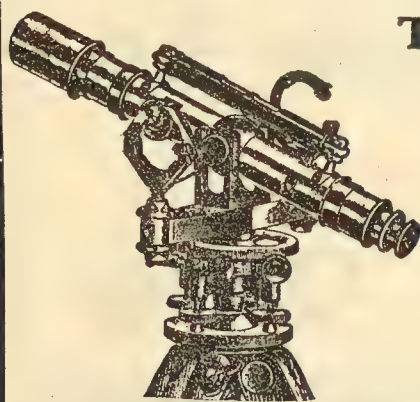
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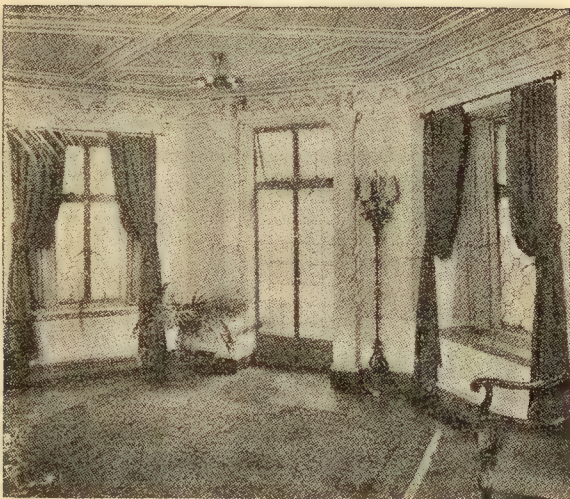
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plans. Owners, S. S. Kresge Co., 555 Fifth avenue, New York. General alterations.

Store and Residence (add. and alts.), \$2,000. 3645 Market street, Philadelphia. Contract awarded Abe Katz, 626 Tasker street, Philadelphia. Architect, private plans. Owner, Harry Shorty, on premises. Brick, third story add., 12x15 feet, general alterations.

Store (add. and alts.), \$8,000. 313 South street, Philadelphia. Contract awarded Roman Building Construction Co., 1928 South Eleventh street, Philadelphia. Architect, private plans. Owner, Samuel Bollin, 812 North Second street, Philadelphia. Brick, second and third story adds., 19x20 feet, general alterations.

Shop and Office, \$4,500. 1918 Naudain street, Philadelphia. Contract awarded Joseph A. Long, Yeadon, Pa. Architect, private plans. Owner, J. M. Kennedy, Jr., 406 South Van Pelt street, Philadelphia. Brick, 2 stories, 16x60 feet.

Residence (alts.), \$2,000. East side Germantown avenue, North of Summit street, Philadelphia. Contract awarded A. B. C. Porch Enclosure Co., Fifth and Berks streets, Philadelphia. Architect, private plans. Owners, Sisters of St. Joseph, Chestnut Hill, Pa. General alterations.

Store and Office (alts.), \$5,000. 1713 Chestnut street, Philadelphia. Contract awarded Frank C. Stockholm, 120 North Camac street, Philadelphia. Architect, private plans. Owners, Joseph Diamond Co., on premises. General alterations.

Store (alts.), \$4,000. 1016 Chestnut street, Philadelphia. Contract awarded Frank G. England Co., 1124 Washington avenue, Philadelphia. Owners, Hanover Shoe Co., Hanover, Pa. General alterations.

Store and Apartment House (alts.), \$2,000. 2121 West Columbia avenue, Philadelphia. Contract awarded D. Rosenberg, 2510 South Eighth street, Philadelphia. Architect, private plans. Owner, Jacob Loeb, on premises. General alterations.

Contract No. 179, City Hall Station, Broad Street Subway. Contract awarded George F. Dobbins, 1020 South Forty-seventh street, \$33,980. Owners, Department of City Transit, City Hall Annex, Philadelphia. Passageway and escalator well in City Hall Station.

Miscellaneous Work, Philadelphia. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Oxford avenue, from Roosevelt Boulevard to Leiper street, Mack Paving Co., Nicetown lane and C street, Philadelphia, \$69,858.49.

Miscellaneous Work (Asphalt Paving). Contracts awarded, Philadelphia. Owners, Depart-

ment of Public Works, Bureau of Highways, Philadelphia. Coulter street, Wayne to Laurens, Municipal Paving Co., Second and Wingohocking streets, \$28,975.40. Green, Broad to Sixth street, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$45,704.90. Lansdowne, Fifty-second to Sixtieth street, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$32,819. Venango, Frankford to Tulip, Eastern Asphalt Co., Pennsylvania Building, \$28,763.90. Twenty-first, Ridge to Susquehanna avenue, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$52,887.04. Sixtieth, Market to Spruce, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$17,264.64.

Pennsylvania Construction News

High School Building, \$80,000. West Conshohocken, Pa. Work contemplated. Owners, Montgomery County Commissioners, Alvah S. Mackenzie, President, West Conshohocken, Pa. Brick, stone, 2 stories, will contain classrooms, gymnasium, auditorium.

Lodge Building, Linwood, Pa. Work contemplated. Owners, Farmers' and Mechanics' Lodge, I. O. O. F., Ridge road and Market street, Linwood, Pa.

Nurses' Home, Clark's Summit, Pa. Architects selected. Architects, Coon & Rutledge, Union Bank Building, Scranton, Pa. Owners, Scranton Poor District, Charles Acker, Secretary, Connell Building, Scranton, Pa. Brick, 2 stories. Too early for details.

Warehouse, Tenth and Fisher's avenue, Somerville, Pa. Preliminary plans in progress. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Almar Stores, N. G. Watchel, 925 North Front street, Philadelphia. Reinforced concrete.

Residence and Garage, Jenkintown Manor, Pa. Preliminary plans in progress. Architect, Harold Edward Williams, Drexel Hill, Pa. Owner, A. E. Horst, 193 East Roosevelt Boulevard, Philadelphia. Brick, 2½ stories.

Residence and Garage, Wayne, Pa. Preliminary plans in progress. Architect, Harold Edward Williams, Drexel Hill, Pa. Owner, F. B. Payne, care of Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Stone, brick, 2½ stories, wood shingle roof, hardwood floors, electric light, tile work.

Ward Building, Waymart, Pa. Preliminary plans in progress. Architects, Charles L. Hillman & Son, 400 Chestnut street, Philadelphia. Owners, Fairview State Hospital, W. L.

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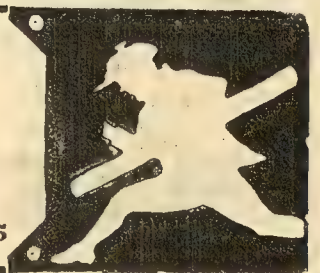
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Lynch in charge, Waymart, Pa. Stone, 2 stories.

Bakery (add.), Bethlehem, Pa. Plans in progress. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bethlehem Baking Co., 535 Second avenue, Bethlehem, Pa. Brick, steel, slow burning construction, 2 stories and basement, 40x140 feet, slag roof, wood deck, reinforced concrete floors, roof ventilators, waterproofing, area gratings, steel skylights, steel sash, electric light.

Residence, Bethlehem, Pa. Plans in progress. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Anthony Vuchan, care of architect. Brick, 2½ stories, 20x42 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Sewage Treatment Plant, Kline's Island, Allentown, Pa. Plans in progress. Engineers, Metcalf & Eddy, Statler Building, Boston, Mass. Owners, City of Allentown, Bureau of Sewage Disposal and Sewers, 301 Central Fire and Police Station, Allentown, Pa.

Convent, Bethlehem, Pa. Plans in progress. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Holy Infancy Roman Catholic Church, care of architect. Brick, 2½ stories, 60x30 feet, slag roof, maple floors, electric lighting, tile work.

Nurses' Home, Allentown, Pa. Revised plans and specifications being prepared. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Allentown State Hospital, Dr. H. O. Klopp, Superintendent, Hanover and Quebec streets, Allentown, Pa. Brick, steel, reinforced concrete, tile and slate roof, cement floors, hollow tile, safety treads, cast stone, metal lath, tile, marble, terrazzo, kalamain doors, iron stairs, ornamental iron (plumbing, heating and electric separate).

Store (alts.), Cedar and Mills streets, Bristol, Pa. Plans in progress. Owners will be ready for bids in 2 weeks. Architect, H. A. McGrath, Langhorne, Pa. Owners, Gallagher & Gallagher, on premises. Structural steel, limestone front, plate glass, metal bulks.

Residences and Garages (4), State College, Pa. Plans about completed. Architect will soon take general bids. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owner, H. L. Stuart, State College, Pa. Brick, brick veneer, 2½ stories, shingle roof, hardwood floors, electric light, tile work.

Residence and Garage, Swarthmore, Pa. Plans in progress. Architect will be ready for bids in 2 weeks. Architect, J. L. Conaroe, 1518 Walnut street, Philadelphia. Owner, name withheld. Brick, 2½ stories, 40x26 feet, wing

22x57 feet, black slate roof, hardwood floors, hot water heat, electric light, tile work.

Church and Sunday School, West Chester, Pa. Plans about completed. Architect ready for bids in a week. Architect, Ralph P. Minnich, West Chester, Pa. Owners, Baptist Church, West Chester, Pa., Walter L. Phillips, 635 Church street, West Chester, Pa. Brick, marble trim, 2 stories, 40x120 feet.

Residence, Easton, Pa. Architect will be ready for bids this week. Architect, A. D. Chidsey, Jr., 239½ Northampton street, Easton, Pa. Owner, Miss Greisbach, care of architect. Brick, 1½ stories, 25x40 feet, slate roof, maple floors, hot air heat, electric light.

Building, Bethlehem, Pa. Architects will be ready for bids in about two weeks. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian College, 87 West Church street, Bethlehem, Pa. Fireproof, 2 stories, 80x100 feet, slate roof, reinforced concrete floors, partitions, vapor heat, electric light, metal lath, ornamental iron, cast stone.

High School (add.), Harper and Hilcrest streets, Morrisville, Pa. Ready for bids in 3 weeks. Architect, Thomas B. Stockham, Stockham Building, Morrisville, Pa. Owners, School District of Morrisville, Pa., Mr. W. Lair, Morrisville, Pa. Brick wing, 2 stories, 100x30 feet, and auditorium.

Laundry, Coatesville, Pa. Revised plans in progress. Will be ready for bids in 2 weeks. Engineers, Jefferies & Weiler, 322 West Market street, West Chester, Pa. Owners, New Idea Laundry Co., 64 Woodland avenue, Coatesville, Pa. Steel, concrete, glass, 1 story, 55x103 feet.

School Building, Aldan, Pa. Ready for bids in a week. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Board of Education, Aldan, Pa.

Residence and Garages (2), Villa Nova, Pa. Hamilton Vodges, Otis Building, Philadelphia, will supervise construction. Owner and builder will be ready for sub-bids about September 1st. Architect, name withheld. Owner, H. H. Murray, care of H. Belfield Co., 435 N. Broad Street, Phila. Stone 2½ stories. Details undecided.

Residence, Haverford, Pa. Plans in progress. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof.

Store Building, West Chester pike at Copley avenue, Upper Darby, Pa. Plans in progress. Lessees, Syndicate, care of Thomas A. Sherridan, Upper Darby, Pa. Architect, H. B. Weldon, 1817 Callowhill street, Philadelphia. Brick, stone, 2 stories.

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Residence and Garage, Villa Nova, Pa. Plans in progress. Architect ready for bids in 2 weeks. Architect, Sherman Coates, 1420 Chestnut street, Philadelphia. Owner, name withheld. Frame, stucco, 2½ stories, 30x60 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Janitor's House (repairs), Leiperville School, Ridley Township, Pa. Owners taking bids due August 19th, 8 P. M. Architect, private plans. Owners, Ridley Township School, C. M. Lewis Corbin, Secretary, Fairview road, Woodlyn, Pa. Specifications from John S. Hays, Woodlyn, Pa.

Residences and Garages (4), State College, Pa. Architects taking bids due August 19th. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owner, H. L. Stuart, State College, Pa. Brick, brick veneer, 2½ stories, shingle roof, hardwood floors, electric light, tile work.

School, Citronia, Pa. Owners taking bids due August 30th. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, South Whitehall Township School Board, O. N. Miller, President; C. M. Stauffer, Secretary, 732 North Twenty-sixth street, Allentown, Pa. Brick, steel, 2 stories and basement, 67x90 feet, slag roof, maple floors.

Church, Lancaster, Pa. Owners taking bids due August 21st at 6 P. M. (Eastern Standard Time). Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Andrew's Reformed Church, J. P. Sherry, Lancaster, Pa. Brick, limestone, steel, 1 story and basement, 46x100 feet, slate roof, wood floors, vapor vacuum heat, electric light, leaded glass, waterproofing, cinder concrete block.

Residence and Garage, Wallingford, Pa. Owner taking revised bids due August 19th. Architect, S. Kendrick Litchy, Secane, Pa. Owner, John P. Rife, 19 North Fifth street, Philadelphia. Stone, frame, 2½ stories and basement, 29x53 feet, wing 26x20 feet, shingle roof, oak, pine and cement floors, hot water heat, electric light, metal lath, tile and marble

work, rolled steel sash, excavation, flagstone, concrete block, linoleum, iron and steel, hardware.

Residence and Garage, Mt. Pleasant road, Villa Nova, Pa. Builder, Hamilton Vodges, 1108 Otis Building, Philadelphia. Architect, private plans. Owner, Mr. Howard Murray, care of H. Belfield Co., 435 North Broad street, Philadelphia. All steel casement, stone, slate roof, hardwood floors, hot water heat, electric light, tile work.

Residence and Garage, Mt. Pleasant road, Villa Nova, Pa. Builder, Hamilton Vodges, 1108 Otis Building, Philadelphia. Architect, private plans. Owner, Mr. Thomas H. Halton, care of builder. Stone, steel casements, slate roof, hardwood floors, hot water heat, electric light, tile work.

Borough Hall (alts. and add.), Sharon Hill, Pa. Low bidders, Nichols & Beckett, Glenolden, Pa., \$12,989. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Sharon Hill Borough, H. E. Anschutz, 107 North Clinton avenue, Sharon Hill, Pa.

Stores (3), Apartments (22), High School road, Elkins Park, Pa. Sketches drawn, plans to be started at once. Architect, Charles Schaef, 11 South 16th street, Philadelphia. Owner, Jacob Gorehov, 40th and Baltimore avenue, Philadelphia. Brick, stone, 3 stories and basement.

Stores (3), Apartments (10), Lansdale, Pa. Plans in progress. Architect will be ready for sub-bids in two weeks. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Morton Thomas, Tremont Hotel, Lansdale, Pa. Brick, limestone, 3 stories and basement, 65x65 feet, slag roof, hardwood floors, vapor heat, electric light, tile work.

Building (alts. and add.), for store and bakery, Jenkintown, Pa. Plans in progress. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Henry Austermuhle, Jenkintown, Pa. Front addition, stone, 1 story, 33x20 feet, slag roof, tile and concrete floors. Rear addition, brick, 2 stories, 20x30 feet, slag roof, cement floors, heating and lighting extensions.

Reception Service Building (add.), Warren State Hospital, Warren, Pa. Owners taking bids due August 23rd at 2 P. M. (E. S. T.) Architects, Eric, Fisher Wood & Co., 233 Oliver avenue, Pittsburgh, Pa. Owners, Commonwealth of Pennsylvania, Department of Property and Supplies, B. E. Taylor, secretary, Harrisburg, Pa. Preparation of site, excavating, concrete, cement, terrazzo, stone, brick, hollow block, waterproofing, damp-proofing, insulation, slate roof, sheet metal work, lathing, plastering, structural steel, steel rod joists, metal windows, hollow metal doors and frames, laundry and dust chutes, carpentry, weather stripping, caulking, louvre panels, painting, glazing, miscellaneous steel and iron, composition floors, tile work, alabaster stone, dumbwaiter and dumbwaiter doors (heating, electric and plumbing, separate). Plans may be obtained from Frank St. Clair, Jr., chief engineer, Department of Property and Supplies, upon deposit of \$50.00 for each set (refunded). Certified check. Surety bond.

Superintendent's Residence, \$30,000, Millersville, Pa. Plans in progress. Architects, C. Emlen Urban, 19 North Queen street, Lancaster, Pa. Owners, Millersville State Teachers' College, H. Edgar Shertz, secretary, 42 North Duke street, Lancaster, Pa.

Orphans' Court Room (remodeling), Court House, Lancaster, Pa. Owners taking bids due August 19th at 11 A. M. Architect, C. Emlen Urban, 19 North Queen street, Lancaster, Pa. Owners, Lancaster County Commissioners, Chas. Passmore, president, King and Duke streets, Lancaster, Pa.

Residence and Garage, Loraine Tract, Rydal, Pa. Architect taking bids due August 20th. Architect, John A. Bower, 1518 Walnut street, Philadelphia. Owner, G. Bertram Ragar, Noble Vista, Pa. Stone, brick, stucco, 2½ stories and basement, 94x30 feet, slate roof, oak and pine and cement floors (linoleum and electric reserved), hot water heat, tile work, steel casement windows.

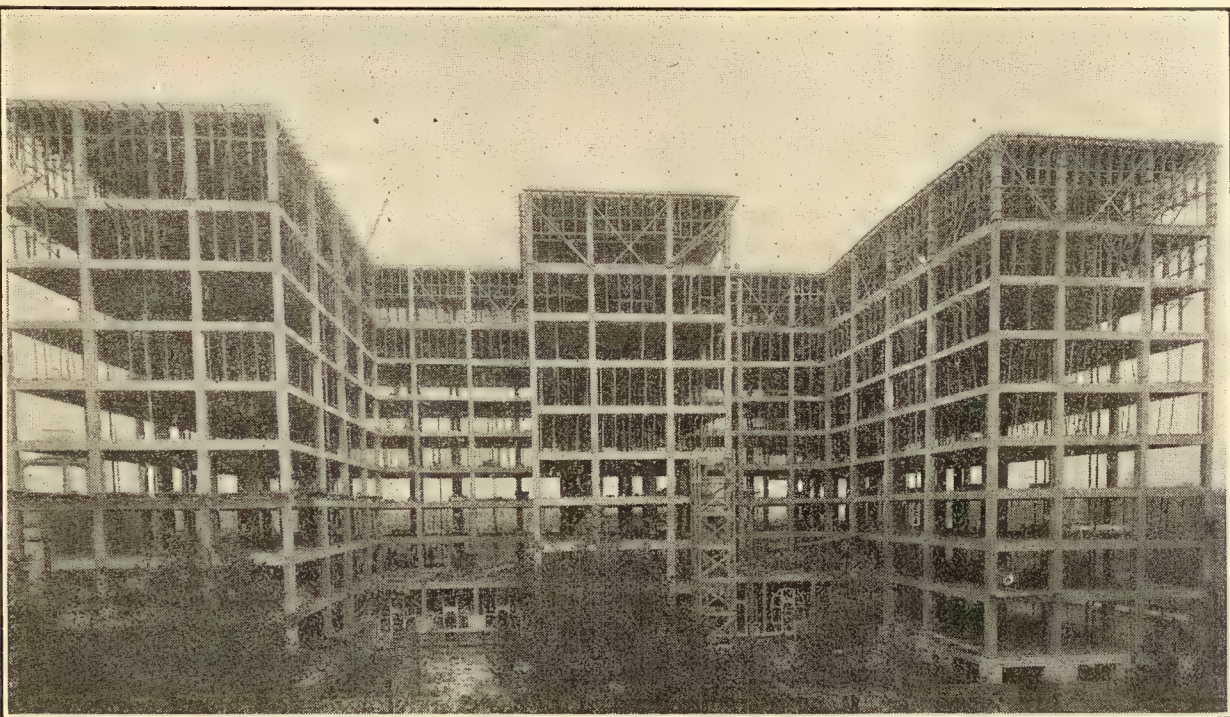
Store Building, Glenside, Pa. Owner taking bids due August 16th. Architect, Solomon Kaplan, 10 South 18th street, Philadelphia. Owner, Moskovitz Bros., Glenside, Pa. Brick, steel, cast stone, 2 stories and basement, 44x80 feet, slag roof, pine and cement floors, plumbing, hot water heat, electric light, metal lath.

Equipment, etc., Prospect Park, Pa. Owner taking bids due August 22nd, 5 P. M. Owner, School District, J. Leslie Galloway, Moore, Pa. Furnish apparatus, equipment, furniture, etc.

Telephone Building (alts.), Scranton, Pa. Architect taking bids due August 16th. Architect, John T. Windrim, Commonwealth Bldg., Philadelphia. Owner, Bell Telephone Company, 19th and Arch streets, Philadelphia. Carpentry and millwork, plastering, concrete and cement work, hardware, general interior alterations.

Pennsylvania Contracts Awarded

Superstructure, Office Building, Southwest Corner Baltimore and Highland avenues, Lansdowne, Pa. Contract awarded Franklin M. Harris Co., 1520 Parrish street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Engineers, United Engineers and Constructors, 112 North Broad Street, Philadelphia, Pa. Owners, Electric Realty Corporation, care of engineers. Reinforced concrete, brick, steel, 2 stories and basement, 103x31 feet, built-up roof, cement floors, hardware, metal weather strip, caulking, fireproofing, waterproofing, metal lath, tile and marble work,



Pictured above is the \$2,500,000 Reinforced Concrete Unit of the \$10,000,000 project of The Walnut Plaza Co., at 63rd and Walnut Streets, Philadelphia. It was erected in 69 working days by Frederick Massiah and is one of Philadelphia's largest beam and girder jobs.

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floor hardener, iron stairs, ornamental iron work.

School (alts. and add.), Fallsington, Bucks County, Pa. Contract awarded Roy Randall, Jenkintown, Pa., \$29,985. Plumbing, F. G. Wackenhutt, 2416 Frankford avenue, Philadelphia, \$2,069. Heating, A. Ardrey, Bristol, Pa., \$6,924. Electric, Peter Peifer, Trenton, N. J., \$746. Architect, Thomas B. Stockham, Morrisville, Pa. Owners, Board of Education, Township of Falls, Bucks County, H. W. Scatterwaite, Secretary, Fallsington, Pa. Brick, stucco, limestone, 2 stories and basement, 142x36 feet.

Superstructure, Pottstown, Pa. Contract awarded F. H. Keiser, Pottstown, Pa. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Engineer, A. S. Kepner, Pottstown, Pa. Owners, Immanuel Lutheran Church, Rev. Irwin B. Kurtz, 239 Chestnut street, Pottstown, Pa. Brick, reinforced concrete, terra cotta, brownstone, 1 story, balcony, basement, 70x100 feet, composition roof, maple floors, slate toilet partitions, vapor heat, electric light, kitchen equipment.

Residence and Garage, Trevoise and Southampton roads, Somerton, Pa. Contract awarded Michael Yaeger, Feisterville, Pa. Architect, W. Ellis Groben, 1051 Sixty-ninth avenue, Philadelphia. Owner, Charles H. Westrick, care of Sears-Roebuck Co., Roosevelt Boulevard, Philadelphia. Stone, frame, 2½ stories and basement, 45x34 feet, shingle roof, pine and cement floors, hot water heat, electric light. (Note change in contractor.)

Residence, Wallingford Hills, Pa. Contract awarded Powell Construction Co., Ardmore, Pa., who are taking sub-bids. Architect, private plans. Owner, Frank C. Hartzel, care of builder. Stone, frame, stucco, 2½ stories and basement, 47x28 feet, slate roof, oak and pine floors, vapor heat, electric light, ornamental iron work.

Residence (alts.), Whitmarsh, Pa. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia. Owner, Charles Cheston, Whitmarsh, Pa. Plastering, paneling, electric light, carpentry and mill work, steel casement windows, ornamental iron work. Architects, Tilden, Register & Pepper, 1606 Walnut street, Philadelphia.

Fire House, Greenleaf and Bayard streets, Allentown, Pa. Contract awarded Frank Yeakel, 711½ North Twelfth street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Keystone Fire Company, Allentown, Pa. Brick, steel, 2 stories, 40x65 feet, Spanish tile roof, cast stone, electric work, linoleum, pine and terrazzo floors, casements.

Residence, Bethlehem, Pa. Contract awarded F. F. Speck Construction Co., 51 West Walnut street, Bethlehem, Pa. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owner, Mrs. B. Dietrich, care of architects. Brick, 3 stories, 60x78 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work.

Double Residence, Bethlehem, Pa. Contract awarded H. J. Sattler, Jr., Quakertown, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, John Peters, care of architect. Brick, 2½ stories, 36x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Hosiery Mill, Willow Grove, Pa. Contract awarded Wintz Brothers, Inc., 1618 Seller street, Philadelphia. Engineer, W. P. Cameron, 4850 North Mascher street, Philadelphia. Owner, name withheld. Brick, steel, 1 story, 100x56 feet, slag roof, cement floors, rolled steel sash, ornamental iron work, sprinkler system.

Residence, Willow Grove, Pa. Contract awarded Stahl & Walton, Willow Grove, Pa.

Architect, R. C. Winter, 3527 North Twenty-first street, Philadelphia. Owner, Louis C. Metz, 201 Lycoming avenue, Willow Grove, Pa. Brick, stucco, 2½ stories, 28x34 feet, heating and roof undecided, electric light, hardwood floors, tile work.

Waterville Bridge No. 89, over Ridley Creek, on line of Chestnut street, Chester, Pa. Contract awarded Carl R. Camp, 10 South Eighteenth street, Philadelphia, \$74,400. Engineer, George Wright, Media, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Reinforced concrete, two 50-foot reinforced girder spans, 40-foot roadway, two 5-foot sidewalks.

Bridges (3). Bridge over Middle Creek, Berks County Line, Douglas Township; bridge and approaches, Scioto Creek, near New Hope Square; extension of Bridge No. 74, Springhouse and Sumneytown pike, South of North Wales, Pa. Owners, Commissioners of Montgomery County, W. D. Irvin, contractor, Norristown, Pa. Middle Creek awarded to E. H. Johnson, Norristown, Pa., \$2,040. Scioto Creek awarded to I. T. Stout, Pottstown, Pa., \$6,494. Bridge No. 74, H. Latshaw, Trooper, Pa., \$1,319.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Tioga County, R-196, near Tioga Borough, bridges (2) over Tioga River. Wagman Construction & Engineering Co., Dallastown, Pa., \$70,391.50.

Lycoming County, R-266, Porter, Watson and Cummings Townships. Grading and drainage. A. A. White, Inc., Lebanon, Pa., \$141,508.82.

McKean County, R-469, Bradford Township, bridge and approaches over Lewis Run. Whit-

taker & Diehl Co., Union Trust Building, Harrisburg, Pa., \$25,290.10.

Huntingdon County, R-192, Sec. R-1, Brady Township. One course reinforced concrete. R. C. Harvey, Lebanon, Pa., \$59,620.08.

Montgomery County, R-146, Sec. 5, Pottstown Borough. One course reinforced concrete. W. R. Wolfinger, Norristown, Pa., \$44,539.43.

Lackawanna and Wayne Counties, R-171-172-335, Jefferson and Salem Townships. One course reinforced concrete. Jacob J. Leinbach, Ashland, Pa., \$224,132.95.

Westmoreland County, R-119, Sec. 2C, Ligonier Township, Ligonier Borough. One course reinforced concrete. Jones Construction Co., Hickory, Pa., \$215,762.71.

Road Work, Pennsylvania. Contract awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.:

Indiana County, R-189, Sec. 2, A-6500, North Mahoning, South Mahoning and East Mahoning Townships. One course reinforced concrete. Grading and drainage. McHugh Bros., Springfield, Pa., \$401,691.06.

Greene County, Route 451, Monongahela Township. Bridge over Whitely Creek. F. E. Trimpey, Casselman, Pa., \$30,465.96.

Jefferson and Clarion Counties, R-237, Sec. 1, Clover Township, Summerville Borough, Red Bank Township. Hagedorn Construction Company of West Virginia, Oil City, Pa., \$307,621.91.

McKean County, R-211, R-211 Spur, A-6223, Otto Township. One course reinforced concrete. Max E. Butler, Duke Center, Pa., \$14,527.50. (Also cement concrete curb and gutter.)

Dauphin and Lancaster Counties, R-219, Londonderry, Mt. Joy and West Donegal Townships. One course reinforced concrete. L. M. Hutchinson, Altoona, Pa., \$234,197.12.

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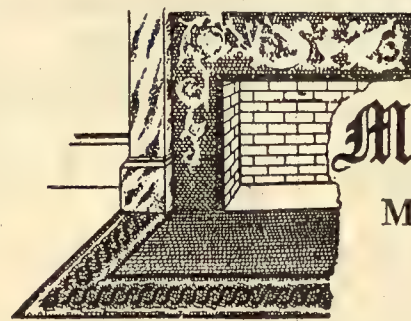
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Warehouse and Morgue (add.), \$7,500. Rear 720 Swede street, Norristown, Pa. Contract awarded Raymond Houghton, Norristown, Pa. Owner, H. J. Kogelschatz, on premises. Brick, 2 stories, slag roof, maple and cement floors.

Swimming Pool, Newtown, Pa. Contract awarded Nason & Cullen, Ardmore, Pa. Architect, private plans. Owner, Gage B. Ellis, Newtown, Pa. Concrete, 1 story, 34x56 feet.

New Jersey Construction News

Hospital (Episcopal) (alts.), Ancora, N. J. Owners, Episcopal Diocese of New Jersey, Rev. H. S. Welles, Canon, Trenton, N. J. Work contemplated.

School Building, \$20,000. Juliustown, N. J. Work contemplated. Owners, School Board, Burlington County, Mrs. Clifford Borden, Juliustown, N. J. Brick, stone, 1 story and basement, 40x100 feet.

Hotel (add.), South Virginia avenue, Atlantic City, N. J. Plans in progress. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Kauffman's Hotel, 161 South Virginia avenue, Atlantic City, N. J. Fireproof, 6 stories, 35x160 feet, slag roof, concrete floors, hollow tile, waterproofing and dampproofing, architectural terra cotta, ornamental iron, fire doors, steel skylights, steel sash, tile, marble, vapor heat.

Residence (alts.) to Office, 727 Federal street, Camden, N. J. Plans in progress. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, name withheld. General alterations, vapor heat, linoleum floors.

Dormitory, Vineland, N. J. Plans in progress. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, name withheld. Brick, steel, fireproof, 2 stories, 38x60 feet, asbestos roof, pine floors, hot water heat, oil burner, electric light, tile work.

Power House, New Jersey State Hospital, Hillsdale, N. J. Owners taking bids. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of

Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Hotel, 162 States avenue, Atlantic City, N. J. Architect taking bids. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Victoria Realty Co., care of architect. Semi-fireproof, 7 stories, 46x110 feet, slag roof, hardwood floors, elevators, waterproofing and dampproofing, architectural terra cotta, ornamental iron, fire doors, steel skylights and sash, tile, marble, vapor heat.

Hotel, Vermont avenue and Boardwalk, Atlantic City, N. J. Owners taking bids. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Malec Realty Co., 6 Seaside Block, 1025 Boardwalk, Atlantic City, N. J. Fireproof, 8 stories, 42x160 feet, concrete roof, hardwood floors, (2) elevators, roof ventilators, waterproofing and dampproofing, architectural terra cotta, ornamental iron, fire doors, tile, marble, metal lath, steam heat, electric light.

Church (alts.), \$15,000. Riverton, N. J. Plans completed. Architects ready for bids. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Christ Episcopal Church, Riverton, N. J. General alterations.

Hotel, Mississippi and Boardwalk, Atlantic City, N. J. Plans in progress. Architect, Louis I. Brook, 65 Madison avenue, N. Y. Owner, name withheld. Reinforced concrete, steel, brick, stone, 600 rooms.

Factory, opposite Freight Depot, Hightstown, N. J. Work contemplated. Owners, Atlantic Glass Corporation, Albert Schoeller, President, Trenton, N. J.; Charles Trepton, Vice-President, New Brunswick, N. J. Size of tract, 10 acres.

Hotel, Jersey City, N. J. Plans in progress. Will be ready for bids about September 15th. Architect, Thomas Martin Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Carterett Biltmore Co., care of architect. Stone, brick, steel, concrete, 600 rooms.

Dormitory Building No. 3, Colony for Feeble Minded, New Lisbon, N. J. Low bidders. Architects, Division of Architecture and

Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, cast stone, 2 stories and basement, 45x45 feet, wing 33x25 feet, 38x19 feet, asbestos shingle roof, oak and pine floors, bluestone, stucco, ornamental iron, tile, metal lath. General, Richardson & Luce, 1524 Chestnut street, Philadelphia, \$41,846; Hugh B. Miller, Edgewater Park, N. J., \$44,800. Plumbing, Burns, Lane & Richardson, Trenton, N. J., \$4,749. Heating, Burns, Lane & Richardson, Trenton, N. J., \$3,857. Electric, Ernest Milligan, Mt. Holly, N. J., \$2,249.

Hotel and Restaurant, Buena, N. J. Owners taking bids. Architect, Joseph E. Lippincott, Guarantee Trust Building, Atlantic City, N. J. Owners, Midway Tavern Co., Samuel Reiter, Buena, N. J. Brick, steel, stucco, 2 stories, 80x60 feet, asphalt roof, safety treads, hot water heat, electric light, metal lath, tile work, steel skylights, ornamental iron, incinerators.

Hotel, South Carolina avenue near Beach, Atlantic City, N. J. Architect will be ready for bids August 26th. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Dr. Ludoff, care of architect. Brick, steel, fireproof, 15 stories, 82x140 feet, concrete, maple and composition floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, cast stone, bronze, iron stairs, fire doors, tile, marble, electric light.

Residence, Chelsea, N. J. Owner will build. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, H. W. Lynch, Preston Apartments, Chelsea, N. J. Brick, 2½ stories, 28x45 feet, tile roof, hardwood floors, hot water heat, electric light, tile work, oil burner.

Apartment House (4-family), 6010 Perry street, Trenton, N. J. Owner taking sub-bids. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, Milton Mirkin, 729 Greenwood avenue, Trenton, N. J. Semi-fireproof, 3 stories, 35x60 feet, slate roof, hardwood floors, vapor heat, electric light, oil burner, tile work.

Residences (4), \$3,000 each. 2046-48-50-52 South Tenth street, Camden, N. J. Permit issued. Owner, H. Russell Bennett, R. D. 3, Marlton, N. J. Brick, 2 stories, 18x30 feet, slag roof, warm air heat, electric work.

Garage Building, \$2,500. 1017 Kenwood avenue, Camden, N. J. Permit issued. Owner, Harry Wolfe, 1307 Park Boulevard, Camden, N. J. Brick, 1 story, 25x98 feet, rubberoid roof, cement floors.

Hangar and Boiler House, Newark Airport, Newark, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, reinforced concrete, 1 story and basement, 160x113 feet, 30x30 feet, waterproofing, iron work, kalamein doors, metal lath. Shore Construction Co., 94 Christie street, Newark, N. J., \$66,948; Charles McCann, 21 Ludlow street, Newark, N. J., \$71,941. Electrical work: Hangar, Harold J. Goldberg, Bayonne, N. J., \$2,273; boiler house, K. E. Electric Co., Newark, N. J., \$460.

Bridges (3), Route 44, Sec. 5, over Repaupo Creek, White Sluice Race and Sand Ditch, Gloucester County, N. J. Owners taking bids due August 26th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation excavation, concrete, reinforcing steel, timber piling. Certified check, 1 per cent. Deposit, \$10.

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Paving, Black Horse Pike, N. J. Low bidder, F. A. Canuse, 804 South Twelfth street, Philadelphia, \$383,000. Owners, Board of Chosen Freeholders, Camden County, William Myers, Camden, N. J. Engineer, B. M. Smucker, Court House, Camden, N. J.

Fetter School (add.), Third street between Walnut and Mt. Vernon street, Camden, N. J. Owner taking bids due August 20th, 2 P. M. (D. S. T.) Architect, Thomas Walter Mayo, Camden, N. J. Owner, Board of Education, Albert Austerhul, 121 South 27th street, Camden, N. J. Certified check 5%. Deposit \$20.00, refunded. Auditorium, addition of toilet partitions. Brick, steel, reinforced concrete, cut stone, 1 story, 80x45 feet.

Gasoline Filling Station, \$10,000. Northeast corner Haddon avenue and Park boulevard, Camden, N. J. Permit issued. Owners, Standard Oil Company, Federal street and River road, Camden, N. J. Brick, 1 story, 9x28 feet, tile roof.

Hospital for Insane and Tubercular. Probable site, Clarksboro Farm, Gloucester, N. J. Work contemplated. Owner, Gloucester Co. Board of Freeholders, Jos. R. Moreland, Paulsboro, N. J., chairman of Committee on Institutions.

Telephone Building, Ocean City, N. J. Architect taking bids due August 19th. Architect, John T. Windrim, Commonwealth Bldg., Philadelphia. Owner, Bell Telephone Company, 19th and Arch streets, Philadelphia. Brick, steel, 2 stories and basement, steam heat, electric light, metal lath, rolled steel sash, ornamental iron work, slag roof, cement floors.

Church (alts.), Riverton, N. J. Architect ready for bids. Architect, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Christ Episcopal Church, Riverton, N. J.

Paving, Asbury avenue, New Relief road to Green Grove, N. J. Owner taking bids due September 4th. Engineer, George K. Allen, Freehold, N. J. Owner, Board of Freeholders, Monmouth County, N. J. 2.14 miles of paving.

weather strip, caulking, membrane and integral waterproofing, iron stairs, ornamental iron, cinder concrete block.

Stowe Cottage, State Reformatory for Women, Clinton, N. J. Contract awarded J. W. Wester, Metuchen, N. J., \$57,953. Plumbing, Elling Brothers, Somerville, N. J., \$6,510. Heating, Elling Brothers, Somerville, N. J., \$5,912. Electric, Hockenbury Electric Co., Somerville, N. J., \$2,497. Sewer, Elling Brothers, Somerville, N. J. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, stucco, 2 stories and basement, 33x19 feet, slag roof, linoleum and cement floors, metal lath, tile, marble.

Chapel, New Jersey State Home for Girls, Trenton, N. J. Contract awarded Maher & Hicks, 1042 Stuyvesant avenue, Trenton, N. J., \$48,683. Plumbing, W. G. Kashner, Roebbing, N. J., \$2,160. Heating, Hadley Contracting Co., Fox Building, Philadelphia, \$2,908. Electric, Commercial Electric Co., Newark, N. J., \$5,748. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, brick, stone, steel, limestone, 1 story and basement, 95x42 feet, slate roof, yellow pine floors, cement floors, metal weather strip, waterproofing and dampproofing, cinder concrete block, ornamental iron, kalamein doors, tile work, metal lath.

Tuberculosis Hospital (add.), Allenwood, N. J. Contract awarded Ferdinand Tedesco, South Amboy, N. J., \$10,900. Engineer, Leon Cubberly, 133 Morris avenue, Long Branch, N. J. Owners, Board of Chosen Freeholders, Monmouth, N. J. 31 beds for men, store room, 2 locker rooms, etc.

Kitchen and Dining Hall Building, State Home for Boys, Jamesburg, N. J. Contract awarded Perth Amboy Construction Co., Perth Amboy, N. J., \$102,350. Plumbing, Adams & Mulready, New Brunswick, N. J., \$7,378. Heating, Burns, Lane & Richardson, New Brunswick, N. J., \$8,427. Electric, John T. Flanagan, Trenton, N. J., \$5,940. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, brick, limestone, steel, 1 story, basement and balcony, 150x73 feet, wing 48x80 feet, slate and slag roof, cement floors, hardware, alberne stone, caulking, membrane and integral waterproofing, damp-proofing, bluestone, cinder concrete block, ornamental iron, iron stairs, floor hardener, bond, kalamein and hollow metal doors, skylights, tile, terrazzo, metal lath.

School and Assembly Building, New Jersey State Home for Girls, Trenton, N. J. Contract awarded W. C. Ehret, Trenton Trust Building, Trenton, N. J., \$74,987. Plumbing, Burns, Lane & Richardson, New Brunswick, N. J., \$4,274. Heating, Hadley Contracting Co., Fox Building, Philadelphia, \$7,290. Electric, Peter Peifer, 128 West Eighth street, Trenton, N. J., \$2,991. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, limestone, reinforced concrete, 2 stories and basement, 133x57 feet, slate roof, wood, cement and pine floors, linoleum floors, bronze thresholds, hardware, waterproofing, ornamental iron, iron stairs, bond, tile, marble, metal lath.

Store (alts. and add.), 3813 Atlantic avenue, Atlantic City, N. J. Contract awarded Raymond Wochner, Chelsea Bank Building, Atlantic City, N. J. Architect, V. B. Smith,

New Jersey

Contracts Awarded

Passenger Station Facilities, Trenton Junction, N. J. Contract awarded General Construction & Contracting Co., Trenton, N. J. Engineer, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Railroad, Twelfth and Market streets, Philadelphia. Reinforced concrete, brick, steel, steam heat, electric light, metal lath, tile, marble and terrazzo work, bond, ornamental iron work, bronze work, slate roof, cement floors, hollow tile, caulking, waterproofing and dampproofing, excavation, concrete and cement work, ornamental terra cotta, built-up asbestos roof, linoleum floors, plastering, slate work, plumbing, bronze grills and thresholds, station building, 2 stories, 84x27 feet, west-bound waiting room, 1 story, 35x15 feet, passenger tunnel, stairway.

Administration Building, State Reformatory for Women, Clinton, N. J. Contract awarded Maurice Pedersen, Perth Amboy, N. J., \$79,978. Plumbing, Burns, Lane & Richardson, New Brunswick, N. J., \$4,913. Heating, Elling Brothers, Somerville, N. J., \$5,255. Electric, Commercial Electric Co., Newark, N. J., \$6,650. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, concrete, steel, limestone, cast stone, 2 stories and basement, 99x35 feet, wing 68x35 feet, slate and copper roof, maple, pine and cement floors, metal



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Guarantee Trust Building, Atlantic City, N. J. Owners, Norwood Supply Co., care of architect. Brick, 2 stories, 30x80 feet, slag roof, maple floors, hollow tile, dampproofing, cast stone, alterations, electric light.

Warehouse, Atlantic City, N. J. Contract awarded Samuel Dolinsky, Commerce Building, Atlantic City, N. J. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, M. Gettleman, 1635 Boardwalk, Atlantic City, N. J. Brick, 2 stories, 88x20 feet, slag roof, pine floors, electric work, steel skylights, waterproofing and dampproofing.

Store, Moorestown, N. J. Contract awarded Hartford Construction Co., Hartford, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, William Cohen, care of architect. Brick, concrete block, 1 story, 50x115 feet, slag roof, maple floors, metal ceilings, hot water heat, electric light.

Cottage, May's Landing, N. J. Contract awarded Emil Weiler, May's Landing, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Dr. Marsten, May's Landing, N. J. Frame, 2½ stories, 22x46 feet, 26x16 feet, asbestos shingle roof, hardwood floors, electric light, tile work.

Building (fire repairs), \$5,000. 305 Benson street, Camden, N. J. Contract awarded Louis T. West, Fifth and Royden streets, Camden, N. J. Architect, Frank N. Gaudelli, 123 Cornell avenue, Audubon, N. J. Owner, John Girgenti, on premises. Removing third story and partitions, new windows, new floors.

Residences (7), \$3,000 each. 1322-24 Morton street, Camden, N. J. Contract awarded Joseph Vincent, 2450 North Forty-sixth street, Merchantville, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Specialty Home Co., 1010 Wilson Building, Camden, N. J. Brick, 2 stories, 14x40 feet, slag roof, warm air heat, electric work.

Residence, \$3,000. 1185 Beideman avenue, Camden, N. J. Contract awarded John Hawes, 1201 North Thirty-third street, Camden, N. J. Architect, private plans. Owner, David F. Harrigan, care of builder. Frame, 1 story, 22x40 feet, rubberoid roof, warm air heat, electric light, pine floors.

Paving, Belmar-Farmingdale road, Manasquan, N. J. Contract awarded Camden Paving Co., Camden, N. J., \$82,165. Owners, Board of Freeholders, Monmouth County, N. J. Engineer, George K. Allen, Freehold, N. J.

Miscellaneous

Construction News

Laundry Building, Farnhurst, Delaware.

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Owners taking bids due August 19th. Engineer, Robert P. Schoenijan, Industrial Trust Building, Wilmington, Del. Owners, Delaware State Hospital, Farnhurst, Del. Brick, 2 stories, cement floors, steam heat, electric light.

Hotel, Dayton, Ohio. Plans in progress. Architects, Thomas Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, steel, concrete, stone.

Miscellaneous

Contracts Awarded

Manufacturing Building, Tarrytown, N. Y. Contract awarded John W. Cowper Co., Fidelity Building, Buffalo, N. Y. Architect, Albert Kahn, Detroit, Mich. Owners, Chevrolet Motor Co., Detroit, Mich. Brick, reinforced concrete, steel, 1 story and basement, 1200x400 feet (plumbing, heating, electric, sprinkler reserved), cement tile roof, cement floors, rolled steel sash, bond, ornamental iron work, waterproofing.

Plant, near Fredericksburg, Va. Contract awarded Hughes-Foulkrod Co., 1505 Race street, Philadelphia, on cost plus basis. Plans not yet completed. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Sylvania Industrial Corporation, 118 East Twenty-fifth street, New York, and on site of job. Consists of 6 buildings and boiler house.

Receiving Cottage, Marshallton, Del. Contract awarded Van Sant Brothers, 831 Tatnall street, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Industrial School for Colored Girls, Marshallton, Del. Reinforced concrete, brick, 2 stories and basement, 113x30 feet, wing 36x25 feet, tile roof, maple and cement floors, hollow tile, electric light, metal lath, ornamental iron, cinder concrete block, metal toilet partitions, carpentry, mill work, metal lath, plastering, painting, glazing, carpentry, asbestos shingle roof, plumbing.

Central Heating Plant, Marshallton, Del. Contract awarded Van Sant Brothers, 831 Tatnall street, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Delaware Industrial School for Colored Girls, Marshallton, Del. Cinder block, stucco, 1 story, 20x30 feet, concrete floors, steel sash, electric light.

MEETING THE ARCHITECT HALF WAY

Advantages of Architect-Builder Corporation Told in Interview with

L. V. Boyd

By L. K. DAVIS

"Cannot builders and architects share each other's problems in a manner that will benefit both?" I asked Architect Lawrence Visscher Boyd as my first question when seated in his office.

"If not, why not,—and what's to be

done about it?"

Without giving him a chance to reply, I went on to present the other questions I had made up as a result of my talks with builders. They were:

"Does the architect 'high hat' the man who works from the plans and specifications?"

"Is the average builder too much tempted 'to go on his own' in matters of design?"

"Is the average architect often impractical to a degree that causes unnecessary structural complications?"

"Is architectural superintendence often an irritation instead of an aid?"

"And lastly, is the architect's service free, particularly on small work, sometimes an excess cost which owners should not be asked to add to their other costs?"

He hesitated a moment as a result of this avalanche of questions, then replied.

"The first two questions cover most of your points," he said with a smile. "I'm glad you've asked them. Let me tell you why I believe there should be the closest sort of relations between architects and builders."

"An owner employs an architect with several definite things in view. He wants a building that, first of all, is right in its design. He wants its plan to meet special requirements. That settled, he wants the final costs to be reasonably close to a price he has decided he shall pay."

Cooperation is Essential

"If the architect is experienced in designing and following construction progress of the type of work for which he has been selected, the first important step has been made toward cooperation of the kind we're discussing. Architecture has become a highly specialized profession. There's architecture of distinctly city type, industrial architecture, institutional architecture, country and suburban architecture. Each is a subject in itself and has closely grouped problems of design and construction. When owners appreciate this fact more fully, perfect coordination between the architect and builder ought to follow as a matter of course."

"The architect who gets into a field filled with structural problems that are entirely different from those in which he is well versed is apt to have difficulty in working closely as he should with the man who follows his plans and specifications. I believe that most failures in architect and builder co-operation could be traced to this as their main cause."

"Among the dozens of builders with whom I have worked, I cannot remember one who was not glad to have an experienced architect associated with his efforts from start to finish of the job. When I say 'start and finish,' I mean exactly that; and by 'start' I mean the very start, the time at which an architect has his designs

in more or less preliminary form, and not at the final stage when plans and specifications are ready for an iron-clad estimate.

"In my own case, I learned early the value of going over the problems of structural as well as owner requirements with the men who later would be asked for bids. Many a time this has been done before even the rough sketches were submitted to the owner. It is surprising how many variations may come about during such discussions, particularly as affecting costs. Invariably they serve to work out economies in material and labor, and settle many questions which otherwise would become real difficulties with the work under way.

"The proper development of plans and specifications before actual estimates are required removes a lot of guesswork from a builder's calculations. It is almost sure to result in freedom from arbitrary demands, vague specification clauses and ambiguous statements which can cause so many troubles for everyone concerned.

"Once an architect and builder begin in this way, the most thorough kind of co-operation usually follows through each structural phase to final completion. Circumstances often arise in which the co-operative suggestions of the architect result in changes, sometimes on large scale, from which the owner receives more for his money than was originally contemplated. Many of these I have built into a permanent record, making them part of specifications used for the type of work on which they were first tried out.

How Architect Helped

"I have in mind one instance where an owner desired a beamed ceiling for his library after work had begun. The extra cost of planed and painted material for this unforeseen change raised immediate objection.

"Between us, the builder and I worked out the effect desired without increase of cost—rough but true hemlock joists of the second floor left exposed, block-bridged, and colored tobacco brown by shingle stain!

"In another home of my design, a country home, the owner suddenly longed for wrought-iron latches and hinges on interior doors. That, too, raised a question of considerable extra cost.

"The builder and I talked it over. Then at a local hardware store we bought, for 15 cents apiece, a few enamelled thumb-latches and hinges of the common stable door variety. These we tossed upon the red coals of a kitchen stove, turning them over every couple of minutes or so until the glistening black coatings had burned away. The result was an almost unbelievably decorative effect in richly mottled iron. So the owner had what he wished, at a mere fraction of the price we had feared.

Made Saving for Builder

"Working closely with the builders, sharing their problems, has brought forth many structural efficiencies which without mutual co-operation would never have been realized, certainly not if superintendence had been made from a strictly architectural point of view.

"On such a simple interior accessory as baseboards, for example, builders and I have often repeated substantial reduction of material cost by using 5-inch instead of 10-inch boards. Those of one-half the usual specifications height serve their purpose perfectly and add, besides, a decided impression of greater-than-actual area in small rooms.

An Idea for Brick Laying

"New ways and means are constantly suggesting themselves to the architect who stays in close touch with the contractor. Years ago a builder and I discovered a way to lay the brickwork of hearths, porches, terraces and walks, which I have since always advised for work of this character. A base of rough concrete is first prepared. Over this is spread an even bone dry mix of equal parts portland cement and sand, one inch in depth. The bricks are placed and tamped solidly. Then the entire surface is soaked to full absorption from the fine sprinkler nozzle of a hose. The water, of course, goes through the joint spaces, which should be kept open and free from cement and sand, to the dry mix. This forms a solid bond on the bottom and well up the sides of each brick, holding with a grip which defies disruption by time or weather. A further advantage in this method is the absence of surface staining.

"Another effective method which I have learned from builder associations is the easy and economical damp-proofing

of exterior walls of brick or stone. Many a dollar has been spent by owners in trying to overcome the effects of moisture which, through capillarity, has climbed a wall from damp ground below the grade line. I have known many a splendid piece of stucco to require expensive repair or replacement because of repeated saturation by water that has risen ten and more feet above the foundations.

Finding Short Cuts

"In all work where there is even a remote risk of this occurring, I find contractors are only too glad to fall in with my suggestions that a course of roofing slate, edge butted to edge, be laid across the thickness of the exterior wall at a height of 6 inches above grade line. And I have yet to see the method fail.

"In many buildings where strict economy must govern the use of material, numbers of 'dodges' and 'short cuts' advised by the structurally minded architect may aid in gaining maximum effect at little cost. A striking example of this happened on one development for which I had been employed as supervising architect.

Improved Trusses

"For economy's sake, but with some misgivings, 3-inch floor joists had been specified instead of heavier material. These gave the floor centers of some of the larger rooms a most annoying 'spring'. The builder and I racked our brains for a remedy which would not pile up extras. Finally we hit on one that made these floors as rigid as concrete.

" $\frac{7}{8}$ -inch x 3-inch strips were cut from waste lumber. Two of these were used to a joist, nailed diagonally across one side from opposite ends and meeting at a carefully mitered angle below the top of the joist exactly in the center of the span. These improvised trusses took up the

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thrust from the floor above and gave all the strength and stiffness of the heavier material, minus its added cost.

"The list of efficiencies made possible by thoroughgoing cooperation, you see, could be a long one. In it would be a great variety of worthwhile items, ranging possibly from extra chimney flues with paddle dampers for the elimination of kitchen heat and odors, to 'trapdoor-ing' library floors beside fireplaces with almost invisible bevel-edged hatches matching the floor boards, providing quick access to firewood kept ready for use on a stage of scantlings a foot or so below floor level.

"The few examples I have cited from many in my files have, I hope, shown how well cooperation between architect and builder can be made to pay in better structural results for the owner. There seems to be every indication that architecture and building are warming up to the necessity for closer, more personal, more active union of viewpoints as they affect design and construction problems.

"Architecture, building, allied trades and crafts, are not independent elements as some of us have come to believe. They should function together through intimate man-to-man contacts which, as I have found in my own experiences, must begin at the beginning and remain close-meshed until the owner takes possession. When this becomes more general, architects and builders will realize how much one depends upon the other."

In addition to the helpful suggestions made by Architect Boyd, we may well consider for a moment ways and means now being practised in many parts of the country to bring about better feeling between the architect and the builder.

One of the outstanding examples is the New York Building Congress where representatives of the entire building industry cooperate in bringing about reforms in which all are interested. Monthly luncheons are held in which a speaker, whether architect, builder or engineer, discusses some problem of mutual interest. The contacts established at these meetings do much to help the various elements in the building business to get an understanding of each other's point of view.

After all, it is very apparent that no architect worth his salt has any desire to make the contractor lose money; it is, rather, to his best interest to maintain a friendly feeling with the builder. On the other hand, no intelligent contractor or sub-contractor can ignore the valuable information and help which he may obtain through contact with an architect.

Getting the Men Together

One very helpful suggestion that has been offered is that local builders' exchanges and other contractor-builder organizations make an effort to get in touch with architects in their communities. It is suggested that letters be written to the secretary of the local chapter of the American Institute of Architects or to leading architects, inviting them to attend luncheons or evening meetings of the builders. In return, representatives of the contractors' organization would be invited to attend meetings of the architects and the viewpoints of both groups could be exchanged.—*Building Age*.

Abstract of speech of F. H. Frankland, Manager of Technical Service, American Institute of Steel Construction, Inc., New York, at the first annual convention of the airport section of the Aeronautical

Chamber of Commerce of America, Inc., meeting at the Hotel Cleveland, Cleveland, Ohio.

It has been pointed out that foresight in the building of rail terminals would have saved the railroad companies tremendous sums which they have spent in recent years in scrapping the old and building anew. As airports are essential to air transportation, the necessary knowledge concerning them is being acquired largely by experience, and a thorough understanding of the principles of obsolescence should be had by those concerned with the development of airport layout and construction.

The Department of Commerce reports that at the end of 1928 there were 921 proposed airports, an increase of 449 over the previous year, and estimates that there were in existence, January 1, 1929, 1,324 airports and landing fields in the United States, comprising 368 municipal fields, 365 commercial, 321 auxiliary, 197 intermediate, 64 Army, 16 Navy, 1 for the Department of Agriculture and one for the Department of the Interior. At the end of March last there were over a thousand cities and towns undertaking the construction of airports, and it is stated that another thousand towns have laid plans out of which aerial terminal facilities will emerge. It is estimated that the next year and half will see \$500,000,000 expended in such construction, about \$300,000,000 of which will be spent in 1929. In the eighteen-month period ending January 1st last, \$300,000,000 was spent to provide such facilities. From this it will be readily seen that the industry is yet going through the growing pains of development, so the permanence of existing airport locations and facilities may be questionable, and this factor should have careful consideration in selecting the type of construction for the various buildings. It was found necessary to completely scrap a \$600,000 investment in inadequate airport structures at the Croydon Airport, at London, and invest \$1,000,000 in more suitable structures.

It cannot be stressed too strongly that the future of aviation rests on the ground, as it is there that planes must take off and land. Foresight in construction will save millions of dollars in the near future.

It is essential that no part of a hangar structure interfere with the free and rapid movement of aircraft, and that all of its floor space is usable and that it contain the minimum cubic content per plane unit of capacity. These objectives can only be efficiently obtained by a properly shaped floor area, vertical sidewalls of minimum height and trusses having horizontal lower chords. It is evident that an arched roof construction having its springline near the ground level will materially reduce the usable floor area and enclose unnecessary space.



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From present indications, planes of the future will, for the most part, be trimotored machines, with a large passenger and express carrying capacity; therefore consideration must be given to hangars with sufficient storage capacity and terminal buildings providing adequate facilities so as to earn a profitable income on increased land values and other unforeseen causes. If an airport is abandoned because of obsolescence or if the steel frame airport structure for any reason becomes unsuitable it can be disassembled and re-erected on another site, or the steel frame removed and re-erected or adapted for use as an industrial or storage building. Its usefulness and value are permanent.

The articulated or "jointed" steel frame is susceptible for quick and inexpensive alterations and reinforcing and can be readily adapted, with safety and minimum expense, to the enlargement or rearrangement of the building. Should the demand for hangar space increase beyond the existing capacity, a steel frame floor of sufficient strength and supported by widely-spaced columns can be built under the trusses and the trusses raised sufficiently for a second story and then be attached to new steel columns. With an inclined steel frame ramp to a wide platform built along the front, the upper floor could be used for large planes and the ground floor for smaller aircraft, or for repair shops and storage, as has been so successfully accomplished at the great Littorio Airport in Rome.

The world's largest hangar is now under construction at Akron, Ohio, by the Goodyear-Zeppelin Corporation, to house the two gigantic airships to be constructed by that company for the United States Navy. This steel frame structure will be 1,200 ft. long, 360 ft. wide and 200 ft. high and will have an unobstructed floor area of 389,000 square feet. The doors, each weighing 800 tons, are unusual in design, running on 40 wheels when opening and closing. This steel frame hangar will be covered with asbestos protected Steel Sheets with trough Stiffeners — there being approximately 1,200,000 square feet of this covering material required.

As illustrating the type of hangar adopted by the United States Navy to house its kite balloons, may be cited the steel frame structures designed and built by the Navy at sites which it is not permitted to name. The Navy has standardized on an all-steel type of hangar for its seaplanes, with flat roof and horizontal bottom-chord steel trusses, steel columns and girts. An officer of the Air Corps, United States Army, says:

"There are in general three types of material that can be used: wood, concrete and structural steel. The first should be eliminated on account of fire hazard. Our available information and check of construction costs indicate that a concrete hangar will cost more than the same capacity structural steel building. The most practical type of concrete hangar is the parabolic shape. This means to get the necessary 110x20 foot cross-section that there will be a lot of waste space in the structure which is poor practice from a heating point of view if no other.

"We concentrated our efforts on the structural steel type of hangar which I believe, taking all conditions into consideration, is the most satisfactory."

The Oakland Airport in California furnishes an example of one of the most up-to-date and approved types of hangars, all steel framed. The development calls for the construction of four hangars in the first unit to be built. Number 3 and Number 4 hangars were made larger in order to keep pace with airplane development. The newer hangars have 120 foot clear openings to accommodate the largest existing commercial planes, while the earlier hangars provide for planes having less than 90 foot wing spread.

Columbus, Ohio, is expending \$850,000 for the construction of its municipal airport, which will provide for a steel framed administration and passenger terminal building, with waiting and rest rooms, a restaurant, ticket offices, etc., on the first floor, and offices for field administration, rest rooms for pilots and space for air transportation companies on the second floor. A tower is to be extended above the second floor in which will be housed

the controls for field lighting and facilities for weather observation.

At the Tulsa Air Terminal, Oklahoma, will be built, for present needs, three steel-framed structures, the central one to be known as the Midway Building, providing terminal facilities, such as ticket offices, waiting rooms, baggage rooms, a restaurant and a roof garden, as well as a large hangar unit. The other hangars of similar size and layout will flank the terminal building for the present. Eventually all of the land surrounding the large landing field will be utilized for hangars and other steel frame structures of similar appearance.

As indicating the trend of design for hangar structures capable of taking care of future increase in wing spread of planes and for providing ease of access for planes entering and leaving, the steel-framed hangar at the Ford Airport, Dearborn, Michigan, provides a clear unobstructed door opening, on each side, of 300 feet long by 20 feet high.

It is obvious to all that aviation is destined to exert a tremendous influence on civilization. Each day the public are becoming more air-minded, and the industry is moving forward with speed which is absolutely unparalleled or even approached by the development of any other industry in the world's history, and if this development is to remain unchecked the greatest care and foresight must be used in providing proper and adequate facilities at airports, which will be capable, as far as possible, of providing for developments in the industry both seen and unseen.

TO THE BUILDING PUBLIC

Two Assumptions

Correct relations are the bases of social and economic welfare.

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The Structural Frame

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Adequate Strength

The science of structural engineering has been developed progressively from certain basic engineering data as new demands have been made. The structural materials have been improved steadily both in quality and shapes. In fact, this science of engineering designing and the production of suitable materials have never failed to satisfy every demand. When we compare the building industry of today with that of scarcely a half-century ago, we have a conception of its tremendous growth. This growth of the building industry would not have been possible except for the facilities and the security provided by structural engineering and the steadily improved processes of manufacturing structural materials.

With very few exceptions adequate strength has been the uniform characteristic of structural frames in buildings. The limited number of building failures can be segregated into two groups. The collapse of trusses or other framed construction is often the result of the primary failure of related parts such as masonry walls, piers and foundations, of which the design and supervision of construction is very often under the control of others than the structural engineer.

In the few instances of the failure of structural frames they are found to be caused by incorrect designing, inferior material or improper workmanship. To the credit of the structural engineer, it is found that incorrect designing is an extremely rare cause of failure.

Adequate strength of the structural frame is secured by the employment of competent structural engineers to prepare the plans, inspect the fabrication and supervise the erection.

The appreciation of the essentials of the adequate strength of structural frames by governmental units is indicated by the requirements of building codes and the examination of structural engineering designs by the building departments. These are legal measures intended to safeguard the occupants of buildings from injury or death primarily, and, secondarily, to insure the building investment.

The effectiveness of building code regulations and building department examinations is often limited for obvious reasons but such procedures do emphasize the importance of and necessity for correct structural engineering service.

Economical Design

The designing of a structural frame so as to secure the maximum economy in cost is important. There is a definite and proper relation between the cost of the structural frame and the total cost of the building. These comparative costs vary with the type and kind of the structure.

To secure profitable building investment it is essential that there exists the correct balance of the cost of the structural frame and the total cost of the build-

ing. A design may provide for barely sufficient strength and still be uneconomical in cost of construction, or it may provide for excess strength. These conditions result from incompetent engineering service.

Economical designing is not attained merely by employing the established rules of structural engineering but rather by a broad knowledge of the science as it relates to building construction in general and a judgment of values which is the result of experience and observation.

A General Opinion

Too often, the architect, the building owner and the builder fail to realize the value of competent structural engineering service. They do not realize the tremendous development of the art of building. There are structural engineers now in active practice who have witnessed the entire development of modern building construction—greater than in the entire previous history of the world—the beginning of which was coincident with the production of structural steel as a commercial commodity.

There is, however, a growing appreciation of the necessity of competent service, both engineering and architectural. There are vast sums of money invested in buildings which do not earn a profitable income. These unprofitable investments are the result of several conditions such as improper site; wrong type of building for the site; and, very often, incompetent engineering and architectural service.

To insure profitable building investments, the intelligent and conservative owner, mortgage-bond banker and the purchaser of building securities, are giving increasing attention to the qualifications of the engineer and the architect employed to prepare the designs and specifications.

There are, however, many owners and investment bankers, as well as architects, who do not realize the importance of competent structural engineering service. It is often considered sufficient if the structural plans merely pass the plan examiner at the city hall. To secure such plans at the lowest cost possible appears to them as a good investment and an indication of shrewdness in bargaining for service.

A design that will barely pass the plan examiner at the city hall and thus become legal, fulfills only the minimum requirements for strength. Even then it may develop inherent weakness when exposed to unexpected conditions which are quite common in the life of buildings, and it may be uneconomical in the cost of material and its fabrication and erection.

There is a correct relation between the required strength of the structural frame, the volume of the material required, its method of fabrication and installation which produces the maximum economy.

All of these factors must be studied relatively and coordinated correctly. Such a service is valuable and is rendered only by the competent, experienced structural engineer. It cannot be secured at a reduced professional fee any more than competent medical, surgical, legal or architectural service can be secured in such a manner.

Competent structural engineering service adds to the real value of the building because it is adequate in the assurance of strength and economy. The prestige of the architect, and very often of the contractor, is an appreciable factor in the evaluation of a building and to this the competent structural engineer makes a real and tangible contribution, although, unfortunately, it is not generally recognized.

GOOD ARCHITECTURE INCREASES VALUE

Good architecture has a very definite sales value. The well designed house will always sell for more than its less attractive neighbor, even though the floor plan and cost of construction be the same. Likewise, the business building that radiates style will enjoy higher rentals and a consequent greater return on the investment than will one which shows poor taste.

Take two pups, one a thoroughbred, the other a cur. At the end of six months, the cost of feeding has been the same. The cur is probably loved just as much as the thoroughbred, but what difference in their sales value! And what a difference in the pride of possession!

The automobile manufacturers have learned that lesson. Of two makes of cars, of equal mechanical excellence, the better looking is the better seller, every time.

Shops that cater to a class of exclusive trade have learned the cash value of good architecture. Without a setting of distinction, their prices would drop. That is why manufacturers of cosmetics, candy, even food products spend their good money for well designed containers. They have learned through highly competitive selling that the better looking or more convenient the package, the easier the selling.

Women have learned that lesson through the centuries. The better their style the greater their fascination. And since women are very largely the final influence in the purchase of a home, their natural appreciation of style makes them particularly susceptible to a house that possesses the enviable distinction of that kind of style which is termed "good architecture."

All of which leads to the inevitable conclusion that good construction and equipment, *plus* good architecture is the answer to "jerry-built" competition.

—*Building Age.*

Reference Directory for Architects, Builders and Owners

AIR COMPRESSORS
Metalweld, Inc. . . . 26th and Hunting Park Ave., Phila.

AIR COMPRESSORS FOR HIRE
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.

AIR WASHERS
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE
DeGiuseppe Art Marble Co. . . 818 N. 48th St., Phila.
Pigeon, Ernest A. 4231 Filbert St., Phila.

ARTESIAN WELLS
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
Robbins, Chas. H., Co. . . . Ranstead & Mole Sts., Phila.
Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

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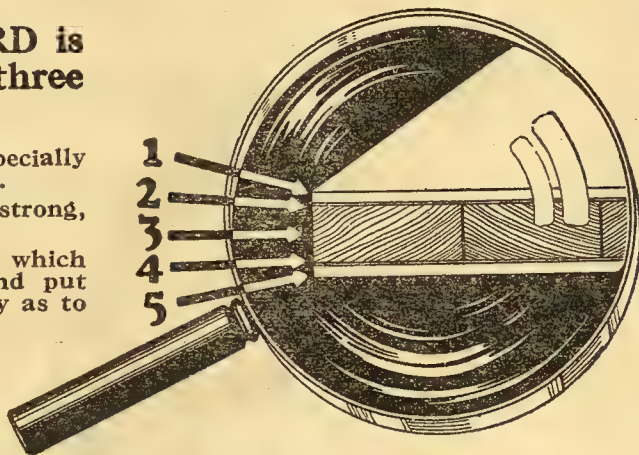
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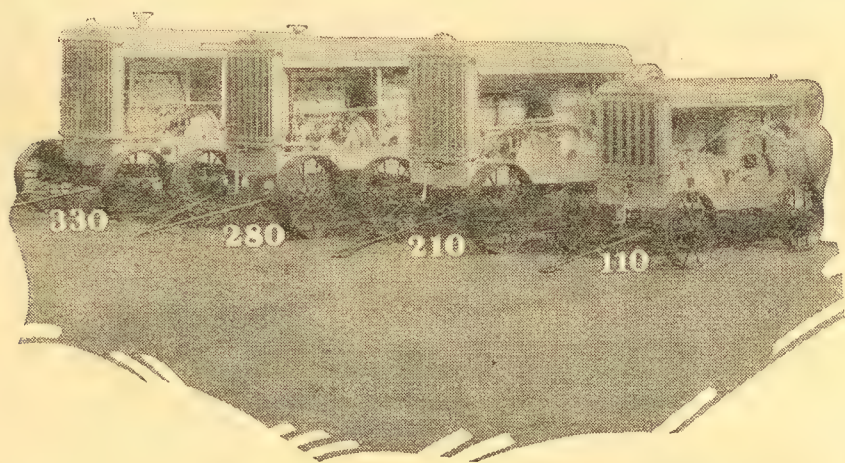
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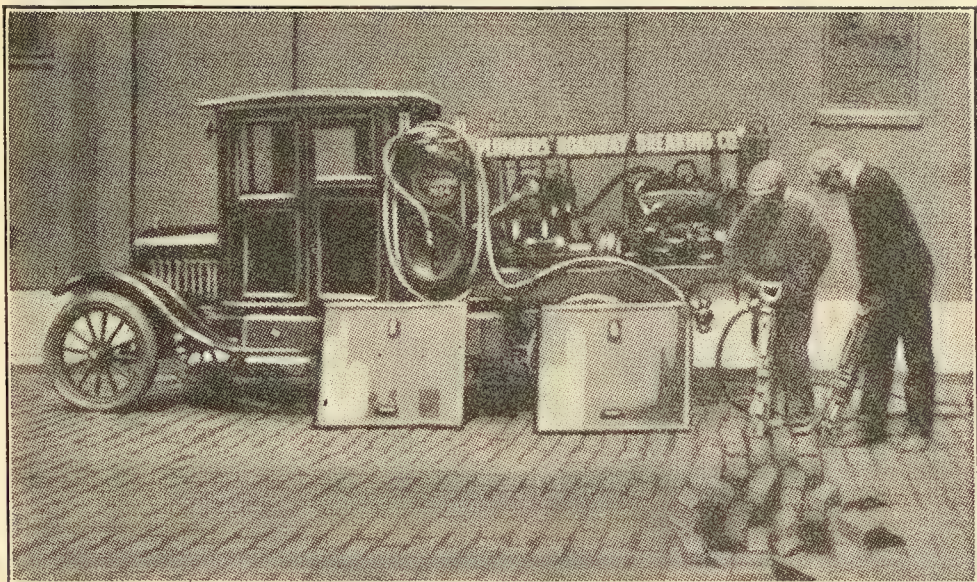
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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Convention Hall, Vintage avenue between University Museum and Commercial Museum, Philadelphia. Plans completed. Owner will advertise for bids in about a week. Architect, P. H. Johnson, Widener Building, Philadelphia. Owner, City of Philadelphia, care Hon. Mayor Mackey, City Hall, Philadelphia. Indiana limestone, 236x408 feet, granite, ornamental plastering, roof vents, automatic pumps, vacuum cleaner, bronze work, lighting, marble work, heating.

Store and Office, 1532 Cherry street, Philadelphia. Work contemplated. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, Benj. Alexander, Land Title Building, Philadelphia. Brick, 2 stories, 17x90 feet.

Residence, \$4,000. 7231-33 Paschall avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Improve Your Home & Repair Company, Seventy-third and Woodland avenue, Philadelphia. Brick, 2 stories, 14x26 feet, slag roof, pine floors, electric work.

Residence, Westview avenue, 700 feet Southeast Corner of Wissahickon Drive, Philadelphia. Work contemplated. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Morris Leeds, care of Leeds & Northrup, 4901 Stenton avenue, Philadelphia. Size of tract 451x556x250 feet, irregular.

Residence and Garages (96), Hawthorne, Hellerman, Hackett, Gilham streets, Philadelphia. Work contemplated. Owner, Clarence T. Willowghby, Atlantic City, and care of Jordan & McCalm, 3701 North Broad street, Philadelphia. Brick, 2 stories.

Gasoline Station, Torresdale and Bridge streets, Philadelphia. Work contemplated. Preliminary plans in progress. Architect, private plans. Owners, Metro Stations, Inc., 1520 Mitten Building, Philadelphia. Brick, stucco, 1 story, 15x15 feet, tile roof, cement floors, electric.

Manufacturing Building, Seventy-first and Spring streets, Philadelphia. Work contemplated. Owners, Wilkening Manufacturing Co., Southeast Corner Fifteenth and Mt. Vernon streets, Philadelphia, care of Mr. Robertson. Brick, steel, concrete, 2 stories.

Residences (30), South side Sheffield avenue, Erdrick and Walker streets. Plans in progress. Ready for sub-bids in 3 weeks. Architect, private plans. Owner, Henry C. Gelpert, 4307 Cottman street, Philadelphia. Brick, 2 stories, 16x44 feet, garage, 1 story, 10x20 feet, slag, slate roof, tile roof, hardwood floors, cement work, hot water heat, electric light, tile work.

Garage, Twenty-fifth and Mifflin streets, Philadelphia. Architect, E. A. Wilson, 1600 Arch street, Philadelphia. Owners, Crean Brothers, Inc., Eighteenth and Oregon avenue, Philadelphia. Brick, concrete block, 1 story, 50x150 feet, steam heat, electric light, slag roof, steel sash, skylights. Plans in progress. Ready for bids in a week.

Station, Passyunk and Christian streets, Philadelphia. Plans in progress. Owners will build. Architect, private plans. Owners, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Brick, 1 story, 25x35 feet.

Station, Fifty-second, Baltimore and Broom-

all street, Philadelphia. Plans in progress. Owners will build. Architect, private plans. Owners, Atlantic Refining Co., C. J. Cutting, 3144 Passyunk avenue. Brick, 1 story.

Apartment House, Overbrook Section, Philadelphia. Architect taking sub-bids due as soon as possible. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Brick, 4 stories, 140x230 feet, slag roof, vapor heat, electric light, tile work, slag roof.

Residences (18), Lebanon and Wanamaker streets, Philadelphia. Owner taking sub-bids. Architect, private plans. Owner, Joseph Ansell, Lebanon and Upland streets, Philadelphia. Stone, 2 stories, (10) 16x55 feet, (8) 20x50 feet, central heat, electric light, tile work, slag, tile and slate roof, hardwood floors, basement garages, 1 and 2 cars.

Apartment House, Fayette street and Seventy-fifth avenue, Philadelphia. Architect taking sub-bids. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Harry Lublin, 2622 South Second street, Philadelphia. Brick, steel, 3 stories and basement, 70x102 feet, slag roof, oak and pine floors, vapor heat, electric light, metal lath, tile work, ornamental iron work.

Residences (20), Ellett street, East of Sherman street, Chestnut Hill, Pa. Revised plans completed. Owner will build and is taking sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Samuel Schlossberg, on premises. Brick, 2 stories, 20x37 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, metal

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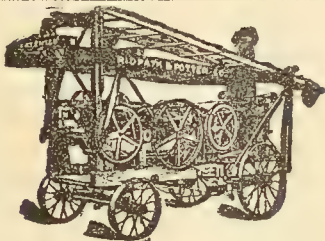
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lath, tile work. (Note change in number of residences.)

Residence Garage, West Cliveden avenue, Germantown, Philadelphia. Architects taking new bids. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Anna Lichtenstein, care of architect.

Bank (new front alt.), Northwest Corner Twentieth and Passyunk avenue, Philadelphia. Architect taking bids due August 22nd, 5 P. M. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Sixth National Bank, N. C. Ives, President, Second and Pine streets, Philadelphia. Brick, reinforced concrete, steel, limestone, heating alterations, electric light, metal lath, rolled steel sash, ornamental iron work, caulking, composition and cement floors, plumbing, linoleum floors, carpentry and mill work.

College Building, 1835-45 Lombard street, Philadelphia. Architects taking bids due August 28th. Architects, Bissell & Sinkler, 1520 Locust street, Philadelphia. Owners, School of Occupational Therapy, Mrs. G. Yeatman, 2200 Delancey, East Graver's lane, Philadelphia. Brick, steel, stone, concrete.

Club House, 1616 Latimer street, Philadelphia. Architect taking bids due September 3rd at noon. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, Cosmopolitan Club, care of architect. Brick, stone, steel, 23x85 feet.

Bank Building (alts.), 2246-48 Lehigh avenue, Philadelphia. Architect taking bids due August 23rd, 4 P. M. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Lehigh National Bank, Dr. M. F. Sullivan, 2238 Lehigh ave., Phila. Excavation, stone masonry, concrete and cement work, brick work, limestone, structural steel, iron work, slag roof, plastering, carpentry and mill work, cabinet work, linoleum floors, painting, glazing, tile work, plumbing, electric work, kalamein doors, hardware, steel casement sash, steam heat.

Research Laboratory Building, Penrose and Gallows avenue, Girard Point, Philadelphia. Architect taking bids due August 24th. Architect, Edward B. Lee, Chamber of Commerce Building, Pittsburgh, Pa. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Reinforced concrete, brick, steel, steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel and hollow metal sash, kalamein doors, iron stairs, ornamental iron work, architectural terra cotta, waterproofing, metal weather strip, plumbing, safety treads, hollow tile, concrete floors, slag roof, dumb waiter, vitrolite, celotex, concrete tile roof, slag roof, plastering, plaster bond, insulation, screens, cast aluminum grilles, painting, glazing, hardware, composition piles (wood and concrete), 4 stories and basement, 112x47 feet, 1 story, 83x39 feet, 39x42 feet, 63x32 feet, 2 buildings.

Passenger Station (demolition and alts.), Philadelphia. Work contemplated. Project to be approved. Owners, Reading Railroad, Twelfth and Market streets, Philadelphia. Demolition 3 stations, enlarging Wister and Wyndmoore Stations.

Bakery and Warehouse, Tenth and Tabor

road, Reading Branch, Logan, Pa. Union Building Corporation, Newark, N. J., will take bids on construction. Architects, The Balingier Co., Twelfth and Chestnut streets, Philadelphia. Owners, Almar Stores, W. C. Wachtel, President, 925 North Front street, Philadelphia. Brick, 3 and 2 stories, 100,000 square feet.

Italian Mission, Southeast Corner Croskey and Indiana avenue, Philadelphia. Architect will take revised bids from lowest bidders. Architect, Edwin A. Yeo, 1520 Locust street, Philadelphia. Owners, Branch of Tioga Presbyterian Church, Rev. R. R. Littell, Sixteenth and Tioga streets, Philadelphia. Stone, 1 story, 40x70 feet.

Store (alts.), Northeast Corner Seventeenth and Walnut streets, Philadelphia. Architects taking bids due August 22nd. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Colonial Trust Co., Seventeenth and Walnut streets, Philadelphia. Demolition, cut stone, concrete, brick, structural steel, wrought iron work, mill work, bronze work, plastering, painting, glazing, electric light, tile and marble work, plaster models.

Bank (add.), Germantown and School lane, Philadelphia. Architects taking bids due September 4th. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Saving Fund Society of Germantown, S. W. Jones, on premises. Brick, reinforced concrete, steel, granite, 1 story and mezzanine and basement, 150x57 feet, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal sash, kalamein and hollow metal doors, travertine, rubber tile floors, composition and copper roof, concrete roof deck, cement floors, hollow tile, elevators, plumbing, caulking, waterproofing and dampproofing.

Bank Building, Northeast Corner Howell and Torresdale avenue, Philadelphia. Plans ready. Bids due September 3rd. Architect, C. H. Fries, Frankford and Oxford avenues, Philadelphia. Owners, Branch Bank of Corn Exchange Bank & Trust Company, 1510 Chestnut st., Phila. Limestone face, brick, 2 stories, 40x50 feet, composition roof, vapor vacuum heat, oil burner, tile, marble and terrazzo work, hardwood, maple floors, composition roof, iron work, bronze work.

Bank Building, Northwest Corner Orthodox and Torresdale avenue, Philadelphia. Plans ready. Bids due September 3rd. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owners, Branch Bank of Corn Exchange Bank & Trust Company, 1510 Chestnut st., Phila. Limestone, face brick, 2 stories, 40x50 feet, vapor vacuum heat, oil burner, electric light, tile, marble and terrazzo work, maple and hardwood floors, composition roof, miscellaneous iron work, bronze work.

Residences and Garages (10), \$65,000 total. 3401-19 Midvale avenue, Philadelphia. Permit issued. Owner, M. J. McCrudden, Thirty-fourth and Midvale avenue, Philadelphia. Brick, 2 stories, 16x35 feet, 12x17 feet, slag roof, hardwood, pine and cement floors, hot water heat, garages, 9x18 feet.

Service Station, \$15,000. Southwest Corner Fifty-sixth and Chestnut streets, Philadelphia.

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Plant

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Permit issued. Owners, The Pure Oil Co., Widener Building, Philadelphia. Brick, 1 story, 25x58 feet.

Gas Station, \$5,000. Southeast Corner Erie avenue and L street, Philadelphia. Permit issued. Owners, Standard Oil Co., Public Ledger Building, Philadelphia. Brick, 1 story, 18x18 feet.

Loft Building, \$300,000. 2116-30 Arch street, Philadelphia. Permit issued. Architects, Magaziner, Eberhard & Harris, Seventeenth and Walnut streets, Philadelphia. Owners, Superior Realty Co., Water and Wolf streets, Philadelphia. Brick, 5 stories, 138x108 feet.

Residences (55), \$221,500. Rawl street, East of Sackett street, Philadelphia. Permit issued. Architect, private plans. Owner, Carl A. Mayer, 235 West Olney avenue, Philadelphia. Brick, 2 stories, 15x34 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residence, \$32,000. South side Green Hill street, East of Seventy-first street, Philadelphia. Permit issued. Architects, Wallace & Warner, Franklin Trust Building, Philadelphia. Owners, R. & M. Westerfield, 6622 Morris Park road, Philadelphia. Stone, 2 stories, 52 feet 4 inches x 60 feet, slate roof, hardwood and pine floors, electric light, tile work.

Residences (2), \$10,500. South side Faunce street, West of Montour street, Philadelphia. Permit issued. Architect, private plans. Owner, Mike Glaser, 7258 Lawndale street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof,

hardwood and pine floors, hot water heat, electric light.

Supplies, Philadelphia. Owners taking bids due September 3rd. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Steel lockers, tables, white lead, equipment.

Miscellaneous Sewer Work, Philadelphia. Low bidders. Owners, Department of Public Works, Bureau of Engineering and Surveys, Philadelphia. Branch sewer: Twentieth street, Olney to Belfield avenue, A. Matia, 748 South Tenth street, Philadelphia, \$11,414.70. West Upsal, from Greene to 450 feet Northeast, A. Matia, 748 South Tenth street, Philadelphia, \$8,304.15. Sewage Disposal Project, Interception of Dark Run Lane, Milnor street, Yetman & Garafola, Real Estate Trust Building, Philadelphia, \$2,800. Reconstruction of Branch Sewer, Vandyke street, Yetman & Garafola, Real Estate Trust Building, Philadelphia, \$5,540. Intercepting Sewer and appurtenant work, Magee street, Vincent Jaffola, 1138 Arrott street, Philadelphia, \$33,280.90.

Miscellaneous Paving. Low bidders. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Lanape, Perma, Sorrento, Conshohocken, etc., Montgomery Paving Co., Harrison Building, Philadelphia, \$19,239.70. Sixty-first, Harley to Passyunk, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$19,605. Emerald, York to Cumberland, Mack Paving Co., Nicetown lane and C street, \$16,309.40.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

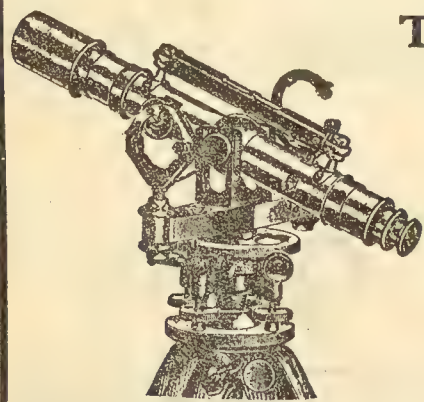
Bank, Germantown and Cheltenham avenues, Philadelphia. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Germantown Trust Company, on premises. Reinforced concrete, brick, steel, 8 stories and basement, 85x62 feet, slag and tile roof, cement floors, elevators, metal window guards, caulking, waterproofing, dampproofing, steam heat, electric light, metal lath, tile and marble work, fire and kalamein doors, bond, iron stairs, ornamental iron work, cinder concrete block, dumb waiters, bronze work, hardware, granite, dampproofing, demolition, excavation, hollow metal doors and trim, sandstone, sprinkler system, steel partitions, area grilles, composition rubber tile floors, art marble wall finish, plumbing.

Residence and Garage, Wayne and Mt.

Airy avenues, Philadelphia. Contract awarded E. J. Heinke Co., 505 Church road, Philadelphia. Architect, Paul M. Hesser, Jr., 225 South Sixth street, Philadelphia. Owner, Harold Rankin, care of architect. Stone, steel, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, plumbing, hot water heat, electric light, metal lath, tile work, rolled steel sash, bond, ornamental iron work.

New Elevator Shaft (alts.), Mellon street, West of Sixteenth street, Philadelphia. Contract awarded Farrell Roth Construction Co., 21 South Forty-sixth street, Philadelphia. Architect, James F. Pierce, 1028 Edgemore road, Philadelphia. Owners, Bornot, Inc., Thirty-fourth and Lehigh avenue, Philadelphia. Elevator, brick work, steel sash, slag roof, fire doors.

Bank Building (alts. and add.), Forty-fourth and Lancaster avenue, Philadelphia.



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Contract awarded John Schnable, Thirteenth and Chestnut streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Bankers' Trust Building, on premises. Plumbing, carpentry, mill work, plastering, painting, glazing, steam heat.

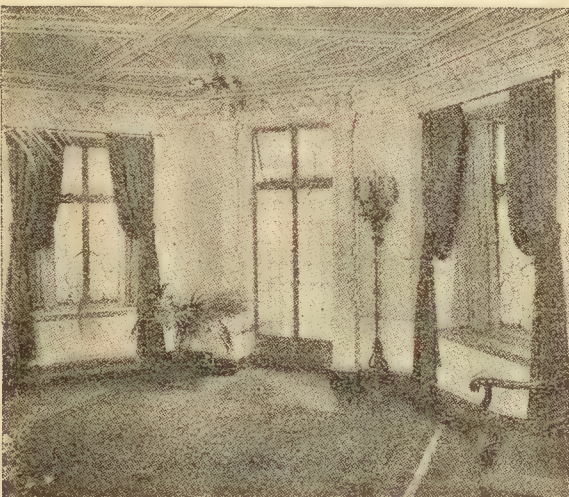
Club House (alts. and add.), 1717 North Broad street, Philadelphia. Contract awarded Lam Building Company, 1001 Wood street, Philadelphia. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Kenneseth Israel Congregation, on premises. Cement work, brick work, plastering, plumbing, steam heating, mill work.

Factory (add.), 4839 James street, Philadelphia. Contract awarded William F. Lotz, Frankford and Oxford avenues, Philadelphia. Architect, private plans. Owners, Delta File Works, 4837 James street, Philadelphia. Brick, concrete, steel, 1 story, 40x75 feet, slag roof, cement and pine floors.

Store (alts.), 2107 Locust street, Philadelphia. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia.

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Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owner, Miss Henrietta Mahaly, care of architect. Copper bulks, carpentry and mill work, plastering, plate glass, heating, painting, glazing, heating, ornamental iron work, tile work.

Residence (alts. to Store), 663 East Westmoreland street, Philadelphia. Contract awarded Clayton & Davidson, 224 East Lipincott st., Phila. Owner, John L. Gleeson, on premises. Brick, new front, plate glass, electric work.

Residence (alts. and add.), Lebanon avenue and Flanders road, Philadelphia. Contract awarded Edward M. Canny, Sixty-first and Sansom streets, Philadelphia. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owner, James McNally, 6721 Lebanon avenue, Philadelphia. Carpentry and mill work, brick work, plastering, painting, general interior alterations.

Building (alts.), 2514-18 North Broad street, Philadelphia. Contract awarded J. L. Fawley, 2121 Walnut street, Philadelphia. Architect, private plans. Owner, Charles Kahn, Seventeenth and Chestnut streets, Philadelphia. General alterations.

Gasoline Bulk Distribution Terminal, Fifty-eighth and Philadelphia & Reading Railroad, Philadelphia. Contract awarded Townsend, Schroeder & Wood, Drexel Building. Architect, private plans. Owners, Sherwood Brothers, Inc., Twenty-first and Packer avenue, Philadelphia. Brick, steel, 2 stories and basement, slag roof, pine and cement floors.

Store and Apartment (alts.), 1006 North Marshall street, Philadelphia. Contract awarded Julius Landau, 1812 North Franklin street, Philadelphia. Architect, Charles S. Schaeff, 11 South Sixteenth street, Philadelphia. Owner, Harry Rutenberg, 812 North Second street, Philadelphia. Tile work, carpentry and mill work, plastering, painting, glazing.

Store and Office (alts.), \$4,000. 1208 Chestnut street, Philadelphia. Contract awarded Michigan Store Fixture Co., Detroit, Mich. Architect, private plans. Owners, Estate of George Allen, 1214 Chestnut street, Philadelphia. General alterations.

Gas Station, \$2,000. 5601 Lancaster avenue, Philadelphia. Contract awarded E. C. Halde-man, 3438 North Twentieth street, Philadelphia. Architect, private plans. Owner, R. Isander, Pennsylvania Building, Philadelphia. Brick, 1 story, 16x14 feet, cement work, electric lighting.

Residence (add.), \$8,000. South side Convent lane, East of Milnor street, Philadelphia. Contract awarded N. K. Freas Sons, Andalusia, Pa. Owner, Mrs. G. A. Carson, Convent

lane and Milnor street, Philadelphia. Brick, 1 story add., 28 feet 6 inches x 36 feet 10 inches.

Residence and Store (add.), \$4,900. 2075 Ridge avenue, Philadelphia. Contract awarded I. Alterman, 5400 B street, Philadelphia. Owner, S. Katzen, 2077 Ridge avenue, Philadelphia. Brick, 3 stories add., 17 feet 6 inches x 44 feet, slag roof, electric light.

Store (alts.), \$6,900. 1016½ Chestnut street, Philadelphia. Contract awarded Bowden Construction Co., 1607 Summer street, Philadelphia. Architect, Ralph E. White, 1518 Walnut street, Philadelphia. Owners, Hanover Shoe Co., Hanover, Pa. General alterations.

Store (alts.), \$2,000. 1029 Chestnut street, Philadelphia. Contract awarded Frank C. Stockholm, 120 North Camac street, Philadelphia. Architect, Herbert J. Krapp, 1 West Forty-seventh street, New York City. Owners, Shubert Theatre Co., 225 West Forty-fourth street, New York. General alterations.

Residence and Store (alts.), \$2,500. 2111 Germantown avenue, Philadelphia. Contract awarded A. Kessler, 3231 Turner street, Philadelphia. Architect, private plans. Owner, Lewis Liebman, on premises. General alterations.

Garage, \$2,000. 1421 North Philip street, Philadelphia. Contract awarded James T. Murphy, 1721 North Second street, Philadelphia. Owner, T. F. McTear, 1440 North Second street, Philadelphia. Brick, 1 story, 23x20 feet, slag roof, cement floors, electric work.

Warehouse, \$2,000. 324 North American street, Philadelphia. Contract awarded Michael Benjamin, 5913 Chancellor street, Philadelphia. Owner, E. S. Miller, 4627 Wayne avenue, Philadelphia. Brick, 1 story, 20x57 feet.

Mill Building, \$8,000. Southwest Corner Wakeling and Summerdale streets, Philadelphia. Contract awarded Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia. Architect, private plans. Owners, Stokes & Smith, on premises. Iron on iron, 1 story, 40x50 feet.

Miscellaneous Work, Philadelphia. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Daggett, Race to Vine street, Marino Masse, 3936 North Reese street, Philadelphia, \$902.48. Sixth street, Southeast, South of Eastwick avenue, Joseph Cicone, 5732 Westminster avenue, \$9,126.60. Sixty-first, Harley to Southeast of Eastwick, Joseph Cicone, 5732 Westminster avenue, Philadelphia, \$1,306.90. Eleventh street, Champlost and Spencer, Mack Paving Co., Nicetown lane and C street, \$8,354.87. Asphalt Resurfacing by Heater Method: No. 13, Municipal Paving Co., Sec-

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ond and Wingohocking streets, \$37,378.58. No. 14, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$30,621. No. 15, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$30,688.90. No. 16, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$29,841.50. No. 17, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, \$28,440.50. No. 18, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$27,949.90. No. 19, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$26,302.34. No. 20, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$26,595.98. No. 21, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$27,925.08. No. 22, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$26,864.86. No. 23, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$27,906.78. Improving shoulders and park area, etc., Curtis Brothers, State road, Philadelphia, \$46,546.45.

Laundry (add.), \$30,000. 1027-1033 Vine street, Philadelphia. Contract awarded Carr & Courtney, 3025 Poplar street, Philadelphia. Architect, private plans. Owners, Philadelphia Toilet & Laundry Company, on premises. Brick, 2 stories, addition, irregular size.

Residence and Store (add. and alts.), \$2,000. 1006 North Marshall street, Philadelphia. Contract awarded H. Rinck, 4219 Viola street, Philadelphia. Architect, private plans. Owner, A. Rotenberg, Second and Brown streets, Philadelphia. Brick, 1 story addition, 12x20 feet, general alterations.

Funeral Parlor (alts.), 2504 West Lehigh avenue, Philadelphia. Contract awarded Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia. Architect, F. V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, James J. Ryan, on premises. New limestone, front, carpentry and millwork, plastering, metal lath, painting, glazing, electric light.

Pennsylvania Construction News

New High School, \$170,000. Eddystone, Pa. Work contemplated. Owners, Eddystone School District, Eddystone, Pa.

Building, Elms and Astor streets, Norristown, Pa. Work contemplated. Details undecided. Architect, private plans. Owners, W. & H. Rhoades, Norristown, Pa.

School, \$200,000. Chambersburg, Pa. Architect selected. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Chambersburg School Board, Dr. J. H. Gordon, Chambersburg, Pa.

Industrial School, Muncy, Pa. Plans in progress. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Women's Industrial School, Muncy, Pa.

Residence, Lancaster, Pa. Plans in progress. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, Ralph Hull, 623 West Chestnut street, Lancaster, Pa. Stone, 2½ stories.

Inn (add.), \$200,000. Swarthmore, Pa. Preliminary plans in progress. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Strath Haven Inn, Swarthmore, Pa. Stone, brick, steel, auditorium and ball room, etc.

Consolidated School, Richlandtown, Bucks County, Pa. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Richlandtown School Board, W. S. Oberholtzer, Richlandtown, Pa. Brick, steel, 1 story, 12 rooms.

Office Building, Eddystone, Pa. Plans nearly completed. Will soon take bids. Architects, Simon & Simon, Fidelity-Philadelphia Trust Building, Philadelphia. Owners, General Steel Castings Co., R. P. Lamont, President; A. F. Blagdon, Vice-President, Eddystone, Pa. Office building, 3 stories, 50x115 feet, cafeteria, 1 story, 50x175 feet, pattern and machine shop, 1 story, 90x765 feet, 192x99 feet, 50x50 feet.

Apartment House, \$500,000. Marshall road and Barrington road, Upper Darby, Delaware County, Pa. Preliminary plans in progress. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Steel, concrete, stone, brick, 10 stories, 85x130 feet, concrete slag roof, concrete and composition floors, hollow tile, elevator, safety treads, roof ventilators, metal weather strip, waterproofing and dampproofing, architectural terra cotta, flagstone, cast stone, bluestone, wall finish, incinerator, vapor heat, electric light, oil burner, metal lath, tile and marble work, rolled steel sash and skylights, fire and kalamein doors, bond, floor hardener, iron stairs, soundproofing, casement windows, ornamental iron work, iron pipe, bronze work, area gratings, brass pipe.

Residence and Garage, Wayne, Pa. Architect taking bids due August 24th at noon. Architect, Harold Edward Williams, Drexel Hill, Pa. Owner, F. B. Payne, care of Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Stone, brick, 2½ stories, wood shingle roof, hardwood floors, electric light, tile work.

Home (alts. and add.), Reading, Pa. Architect taking bids due August 22nd. Architect, Wayne M. High, 230 North Sixth street, Read-

ing, Pa. Owner, Arthur Bach, Reading, Pa. Cement and concrete work, waterproofing, cast stone, brick work, caulking, architectural terra cotta, metal toilet partitions, iron stairs, metal lath, plastering, ventilating skylights, wood decks, asbestos built-up roof, hardware, ornamental plastering, tile work.

Court House (2 wings add.), Media, Pa. Owners taking new general bids due September 16th. Architect, C. W. Brazier, Chester, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Reinforced con-

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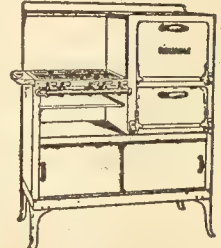
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crete, marble, granite, steel, third floor, 364x144 feet, 2 wings, 158x144 feet, 2 stories and basement.

Garage and Bowling Alley, Markley street, Norristown, Pa. Architect taking bids due August 22nd. Architect, E. Lane Crawford, Norristown, Pa. Owners, Simon Brothers & Howard Rickle, Norristown, Pa. Brick, steel, 1 story, 53x160 feet, slag roof, cement floors, electric.

Country Club, Reading, Pa. Architect will be ready for bids about September 8th. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading Country Club, S. Giles, Chairman, Building Committee, Philadelphia road, Reading, Pa. Stone, brick, stucco, frame, 2½ stories, 160x80 feet, slate roof, tile and maple floors, steam heat, electric light, tile, marble, steel sash, sprinkler system, kitchen equipment, septic tank, ornamental iron, brass pipe, flagstone, incinerators.

High School, Gymnasium and Auditorium, Mechanicsburg, Pa. Owners about ready for bids. Architect, C. J. Lappley, Parkside Bldg., Harrisburg, Pa. Owners, Mechanicsburg School Board, G. A. Minemayer, Mechanicsburg, Pa. Brick, steel, 2 stories and basement, built-up roof, linoleum, hardwood and composition floors, roof ventilators, cast stone or brownstone, bronze, steel casement windows, tile, marble, terrazzo, metal lath (heating, plumbing and electric separate).

School, Rebersburg, Miles Township, Center County, Pa. Owners will be ready for bids this week. Architects, Minich & Jamison, 23 North Third street, Harrisburg, Pa. Owners, Miles Township School Board, H. A. Meyer, Secretary, Rebersburg, Pa. Brick, 1 story, 75x35 feet, slate roof, pine floors, electric work, Warren Webster heat.

Bank (alts. and add.), York, Pa. Architect will be ready for bids in about one week. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, York Trust Company, J. Lewis, President, 21 East Market street, York, Pa. Brick, 3 stories, 68x63 feet, ter-

razzo and linoleum floors, metal window guards, elevators, bronze, ornamental iron, granite, steel skylights, tile, marble, terrazzo, electric work, heating extension.

Gasoline Station, Bridgeport, Pa. Owners will build. Architect, private plans. Owners, Atlantic Refining Co., C. J. Cutting, 3144 Passyunk avenue. Brick, 1 story, 25x35 feet.

Apartment House, Bala ave., North of City Line, Bala, Pa. Architect taking sub-bids. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owners, Gramon Apartments Corporation, care of architect. Brick, steel, cast stone, 4 stories and basement, 170x130 feet, slag roof, oak and pine floors, vapor heat, electric light, metal lath, tile work, rolled steel sash, ornamental iron work, incinerators.

Kitchen Wing, Lima, Pa. Plans about completed. Owners will advertise for bids about September 3rd. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Home, care of J. J. Skelly, Media, Pa.

Residence (alts.), 8227 Westminster avenue, Elkins Park, Pa. Architects taking bids due August 28th. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owner, Jeffrey A. Stone, on premises. Plastering, carpentry and mill work, tile work, painting, iron work, plumbing, hardware.

Store (alts.), Cedar and Mills roads, Bristol, Pa. Architect will be ready for bids in a week. Architect, H. A. McGrath, R. A., Langhorne, Pa. Owners, Gallagher & Gallagher, on premises. Brick, limestone, vitrolite, mill work, hardwood floors, ornamental plastering, reflectors, tile work.

Store (alts.), Norristown, Pa. Architect will be ready for bids in 2 days. Architect, E. Lane Crawford, Norristown, Pa. Owner, Isaac Johnson, 1352 Powell street, Philadelphia. Brick, 1 story, steel, 22x68 feet, maple floors, plate glass, hot water heat, electric light.

Church, Darby, Pa. Low bidder, E. J. Kreitzburg Co., 1333 Arch street, Philadelphia. Architect, J. B. Thomson, 1321 Arch

street, Philadelphia. Owners, Mt. Zion Methodist Episcopal Church, Rev. Warren T. Dunkle, 921 Market street, Darby, Pa. Stone, brick, 2 stories and basement.

Athletic Field and Stadium, Greenwood avenue, Walnut street, West avenue and Highland avenue, Jenkintown, Pa. Low bidder, Roy Randall, Jenkintown, Pa., \$79,985. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Jenkintown School District, Guy M. Grayball, Jenkintown, Pa.

Road Work, Pennsylvania. Owners taking bids due August 29th, at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Butler County, R-246-1, Lancaster and Muddy Creek Townships, Portersville Borough, 27,884 feet. One course reinforced concrete. Certified check, \$4,000.

Chester County, R-605, East Nottingham and Elk Townships, 17,913 feet. Grading and drainage. Certified check, \$1,000.

Clearfield County, R-276, Sec. 3, Bigler Township, Ramey Borough, 10,208 feet. One course reinforced concrete. Certified check, \$2,000.

Elk County, R-99 Spur, Jay Township, 20,598 feet. One course reinforced concrete, (1) reinforced concrete beam bridge. Certified check, \$3,000.

Indiana County, R-68, Sec. R-3, White Township, 7,997 feet. One course reinforced concrete, 2,081 feet grading and drainage, (1) double reinforced concrete slab bridge. Certified check, \$2,000.

Lancaster County, R-442, A-6640, Manheim and Warwick Townships, 26,973 feet. One course reinforced concrete. Certified check, \$3,000.

Lancaster and Berks Counties, R-518, A-5581, Brecknock Township, 22,403 feet. Grading and drainage. Certified check, \$2,500.

Lycoming County, A-6485, Loyalsock Township, 2,402 feet. One course reinforced concrete. Certified check, \$1,000.

Montgomery County, R-362, A-5543, Abington Township, Rockledge Borough, 2,985 feet. One course reinforced concrete. Certified check, \$1,000.

Montour County, R-240, Sec. 1, Anthony and Derry Townships, Washingtonville Borough, 24,831 feet. One course reinforced concrete, 108 feet grading and drainage. Certified check, \$3,500.

Northampton County, R-471, Sec. 4, Lehigh Township, 9,958 feet. One course reinforced concrete, 130 feet grading and drainage. Certified check, \$2,500.

Somerset County, R-186, Somerset and Jefferson Townships, 16,990 feet. Grading and drainage. Certified check, \$1,000.

Washington County, R-114, Sec. 1, North Franklin, Canton, Buffalo and Donegal Townships, 44,124 feet. One course reinforced concrete. Certified check, \$7,500. Also (1) reinforced concrete beam bridge.

Crawford County, Route 82, Vernon Township, bridge over Watson Creek, concrete, steel. timber piles. Certified check, \$1,000.

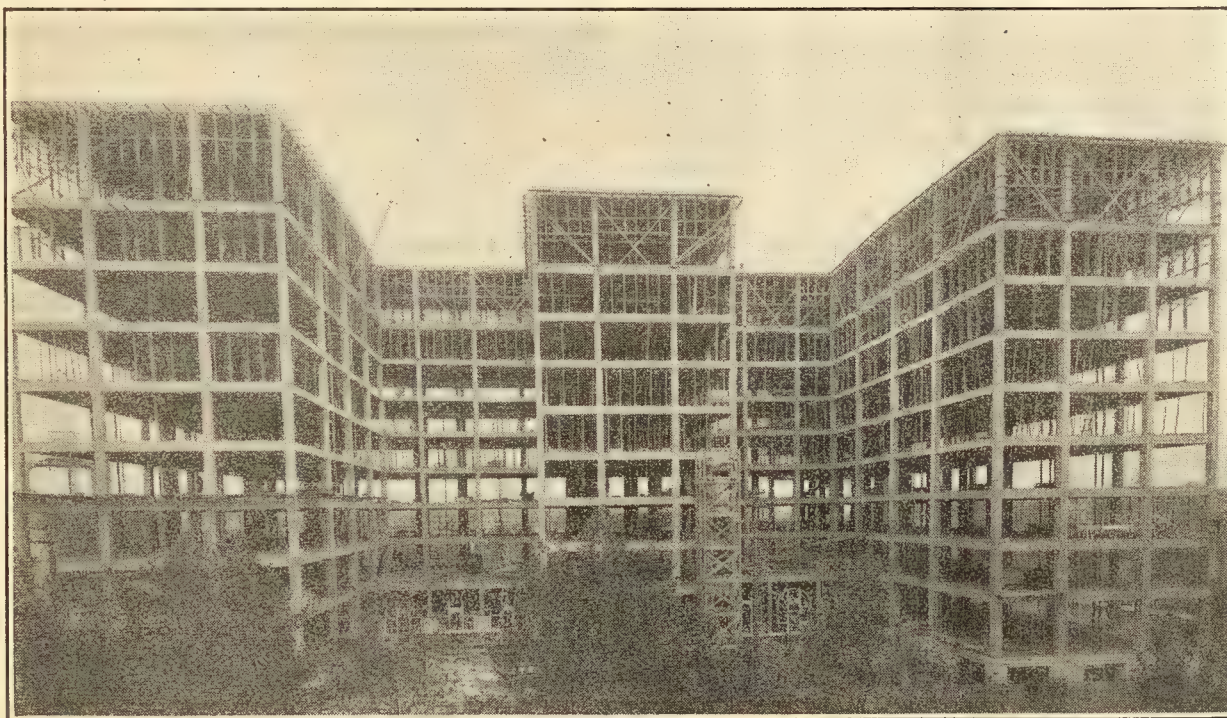
Erie County, R-86, Sec. 4, Fairview Township, Bridge over Walnut Creek. Concrete, steel. Certified check, \$2,500.

Washington County, R-268, Sec 6A, East Pike Run Township. Bridge over Pike Run. Excavation, one course reinforced concrete, steel bars, fabricated structural steel. Certified check, \$500.

Road Work, Pennsylvania. Owners taking bids due August 30th at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Berks County, R-149, West Reading Borough, 4,312 feet. One course reinforced concrete. Certified check, \$1,500.

Clarion County, R-66, A-6209, R-553, New



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Bethlehem Borough, 2,303 feet. One course reinforced concrete. Certified check, \$1,000.
Clearfield County, R-402, Sec. 1, Sandy and Huston Townships, 24,764 feet. One course reinforced concrete, (5) concrete beam bridges. Certified check, \$5,000.

Dauphin County, R-336, A-6641, Upper Paxton and Mifflin Townships, 30,143 feet. One course reinforced concrete, (1) reinforced concrete arch bridge. Certified check, \$3,500.

Delaware County, R-225, Spur A, Spur B, Marple Township, 5,664 feet. One course reinforced concrete. Certified check, \$1,000.

Franklin County, R-588, Washington and Quincy Townships, 16,787 feet. Bituminous surface treated macadam surface course, (3) concrete beam bridges. Certified check, \$2,500.

Greene County, R-111, Sec. 6, Sec. 7A, Centre and Franklin Townships, 19,715 feet. One course reinforced concrete, (3) concrete bridges, (2) pony truss bridges. Certified check, \$4,000.

McKean County, A-5897, Eldred Township, 9,318 feet. One course reinforced concrete, 527 feet grading and drainage, (3) concrete bridges. Certified check, \$2,500.

Mifflin County, R-33, Granville and Oliver Townships, 29,086 feet. One course reinforced concrete. Certified check, \$4,000.

Potter County, R-236, Sec. 1, Sharon Township, 11,585 feet. One course reinforced concrete. Certified check, \$2,000.

Sullivan County, R-19, R-321, Sec. 2, Eaglesmere Borough, Shrewsbury and Davidson Townships, 31,031 feet. One course reinforced concrete, (2) concrete beam bridges. Certified check, \$5,000.

Westmoreland County, R-302, Sec. 11, Cook Township, 18,804 feet. One course reinforced concrete. Certified check, \$3,000.

York County, R-332, Sec. B, Lower Windsor and Chanceford Townships, 17,300 feet. Bituminous surface treated macadam surface course, (1) concrete beam bridge. Certified check, \$2,500.

Westmoreland County, Lower Burrell Township, Allegheny County, Plum Township, Route 737, bridge over Pucketa Creek, reinforced concrete, plain steel bars, fabricated structural steel. Certified check, \$1,000.

Crawford County, Richmond Township, Route 200, bridge over Woodcock Creek. Reinforced concrete, steel, timber piles. Certified check, \$1,000.

Washington County, Route 545, Independence and Cross Creek Townships, (1) bridge over Cross Creek. Reinforced cement concrete pavement, plain steel bars, structural steel. Certified check, \$500.

Reconstruction of Sewer (Sanitary), Borough of Marcus Hook, Pa. Owners taking bids due August 26th, 7 P. M. (Standard Time). Engineer, Chester S. Baker, Chester, Pa. Owners, Borough of Marcus Hook, R. C. Rennie, Marcus Hook, Pa. Market street, present sewer in Second street, to present sewer in Fourth street. Certified check, \$750.

Equipment, Eddystone, Pa. Owners taking bids due September 9th, 7 P. M. (Daylight Saving Time). Owners, Eddystone School District, W. W. Johnson, Jr., Eddystone, Pa. Manual training equipment, Eddystone Junior High School.

Paving, Montgomery County, Pa. Owners taking bids due September 11th, 9 A. M. (Standard Time). Owner, Controller W. C. Irvin, Norristown, Pa. Reinforced concrete, approximately 10,360 feet, 20 feet wide. Certified check.

Paving, Norwood, Pa. Low bidder, J. J. Skelly, Media, Pa., \$2,164. Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Norwood, Arthur W. McClellan, Secretary, Norwood, Pa.

Road Work, Pennsylvania. Low bidders.

(August 15th letting.) Owners, Pennsylvania State Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Juniata County, Route 32, Fermanagh Township. Bridge over Lost Creek. Andrew Engineering Co., Tyrone, Pa., \$45,514.

Juniata County, R-193, Beale and Milford Townships, Mifflin Borough. Bituminous surface treated macadam surface course, (1) bridge. Lord & Quigley, Millerstown, Pa., \$200,198.

Lawrence County, R-315, Shenango Township. One course reinforced concrete, (1) concrete bridge. Golder Construction Co., New Castle, Pa., \$27,462.

Berks County, R-141, Bethel Township. One course reinforced concrete, (2) concrete bridges. D. L. Risser, Lebanon, Pa., \$232,086.

Venango County, R-65, Rockland and Cranberry Townships. Bridge over Sandy Creek. One course reinforced concrete, concrete, plain steel bars, structural steel. Bartell Brothers, Curwensville, Pa., \$30,051.

Lawrence County, R-614-1, Hickory, Wilmington and Washington Townships. One course reinforced concrete, grading and drainage. Holmes Construction Co., Wooster, Ohio, \$137,529.

Somerset County, R-52, Spur, Sec. R-2, A-6423, 5147, Benson Borough, Paint Township. One course reinforced concrete, grading and drainage. A. R. Cooper, Idamar, Pa., \$91,070.

Erie County, R-87, Harbor Creek Township, Wesleyville Borough. Bridge, reinforced concrete. H. E. Bunce, Hornell, N. Y., \$27,241.

Allegheny County, R-70, Sec. 4B1, A-3758A, 4358, Harmar Township. One course reinforced concrete. One course reinforced concrete and vitrified brick pavement. Rinehart

Brothers, East Liverpool, Ohio, \$32,479.

Washington County, A-5763, Robinson Township. One course reinforced concrete. A. G. Rothey, Elizabeth, Pa., \$107,545.

Montgomery County, R-198, Upper Moreland, Upper Dublin and Abington Townships. One course reinforced concrete. Union Paving Co., 123 South Twenty-first street, Philadelphia, \$68,605.

Wading Pool, West Eighth street, Conshohocken, Pa. Plans completed. Owner ready for bids. Owner, Borough of Conshohocken, Harvey D. Herbert, Conshohocken, Pa. Concrete, 25x40 feet, 6 inches to 30 inches deep.

Residence, Wynnewood, Pa. Revised plans in progress. Architect, Harold Edward Williams, Drexel Park, Pa. Owner, J. T. Guyer, care Architect. Stone, 2½ stories and basement, irregular.

Residence, Queen street, York, Pa. Architect taking bids due August 22nd at 2 P. M. Architect, H. R. Lenker, 25 North Duke st., York, Pa. Owner, Dr. L. S. Weaver 25 North Duke street, York, Pa. Brick, Indiana limestone trim, 2 stories.

Tuberculosis Hospital (female) (alts. and add.), Danville, Pa. Plans in progress. Will be ready for bids very soon. Architect, F. Arthur Rianhard, Masonic Building, Williamsport, Pa. Owners, Danville State Hospital, Fred M. Sprout, chairman, Building Committee, Muncy, Pa. Brick, 2 stories.

Gymnasium and Shop Building, \$10,000. Benton, Pa. Plans in progress. Architect, W. Walter Witman, 1916 Market street, Harrisburg, Pa. Owners, Benton School Dist., Benton, Pa.

Paving, Chester, Pa. Owner taking bids due August 27th, 2 P. M. Owner, Department of Street and Public Improvements, E. H. Hunter, superintendent, Chester, Pa.;

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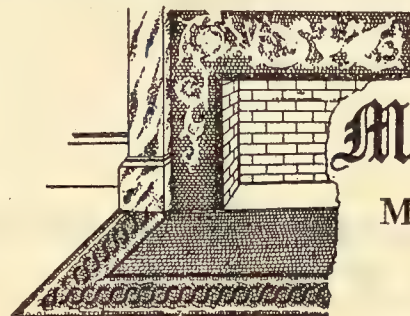
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Road Work, Pennsylvania. Low bidders (August 16th letting). Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, Harrisburg, Pa.

Lawrence County, Scott Township, R-233, bridge, concrete, steel. Woods & Golder Construction Company, New Castle, Pa. \$26,394.

Northumberland County, R-161, Sec. 5, Mt. Carmel Borough and Mt. Carmel Township, bridge over tracks of P. R. R. and Lehigh Valley R. R. and over Shamokin Creek. G. W. Rockwell, Sunbury, Pa. \$209,499.

Mercer and Trumbull Counties, A-6220, So. Pymatuning Township, Pa., and Hartford Township and Orangeville Borough, Ohio. Reinforced concrete slab bridge. Young & Kleisecker, Youngstown, Ohio. \$35,570.

Center County, R-107, Sec. 4, Spring and Boggs Township, Milesburg Borough. One course reinforced concrete, (1) concrete bridge. Geo. L. Thompson Co., Clearfield, Pa. \$126,895.

Green County, R-451, Sec. 1, Jefferson Township. Reinforced concrete bridge. Alfred DePolo, Connellsville, Pa. \$12,707.

Perry County, R-293, Greenwood Township, bridge, concrete, steel, 2 spans, over Cocolumus Creek. Martin & Frownfelter, Camp Hill, Pa. \$21,892.

Allegheny County, R-72, Sec. 5; R-389, Shaler Township. One course reinforced concrete. Frank S. Tillman, Tarentum, Pa. \$123,469.

Bedford County, R-222, Sec. 4, Bedford, East St. Clair and West St. Clair Townships. One course reinforced concrete (5) bridges. Corrado & Galliardi, Connellsville, Pa. \$458,041.

Erie County, R-85, Conneaut Township, bridge, steel, concrete over Conneaut Creek. W. S. Meserve, Buffalo, N. Y. \$49,326.

Greene County, R-112, Sec. 4A, Cumberland Township, bridge over Muldy Run, reinforced concrete, steel. Lippincott Bros., Waynesboro, Pa. \$13,503.

Indiana County, A-6284, West Wheatfield Township. One course reinforced concrete. Eastern States Construction Company, Meadville, Pa. \$123,747.

Lehigh County, R-555, Whitehall Township. One course reinforced concrete, (1) reinforced concrete beam bridge. General Paving Co., Allentown, Pa. \$152,379.

awarded N. W. Bryan, 10 South Eighteenth st., Phila. Work to start at once. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Nativity Lutheran Church, A. R. Cochran, 173 East Mowry street, Chester, Pa. Stone, brick, stucco, cast stone, 1½ stories and basement, 18x52 feet, steam heat, metal lath, bond, ornamental iron work, casement windows, asbestos shingle roof, wood roof deck, maple and cement floors, plumbing, carpentry and mill work, hardware, steel work, slate roof.

Sunday School (alts. and add.), Darby, Pa. Contract awarded E. J. Kreitzburg Co., 1333 Arch street, Philadelphia. Architect, J. B. Thomson, 1321 Arch street, Philadelphia. Owners, Mt. Zion Methodist Episcopal Church, Rev. Warren T. Dunkle, 921 Main street, Darby, Pa. Stone, brick, 2 stories and basement, slate roof, vapor heat, electric light, metal sash, tile work, composition, maple and cement floors, metal lath, metal toilet partitions, kitchen equipment, leaded and stained glass.

Legion Building, Second avenue, Conshohocken, Pa. Contract awarded John Turri, Roxborough, Pa., \$15,115. Architect, F. Leopold, Harmerville, Pa. Owners, John F. DeHaven Post, American Legion, No. 129, E. Arnold Forrest, Conshohocken Trust Company, Conshohocken, Pa. Stone, steel, 3 stories and basement, 42x28 feet, asbestos shingle roof, maple and cement floors, electric light, metal lath, bond, ornamental iron work.

Cottages (2), Buckingham Valley, Pa. Contract awarded D. D. Nyce, Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Theodore Sterling, care of architect. Concrete block, foundations, frames, 2½ stories, 35x40 feet, shingle roof, pine floors, hot water heat, electric light.

Residence (add.), Bryn Mawr avenue, Bala, Pa. Architect, private plans. Contract awarded F. G. Stewart, 1520 Locust street, Philadelphia. Owner, Mrs. Margaret Mahon, on premises. Tile work, carpentry and mill work, plumbing, plastering.

Residence (alts. and add.), Bluebell, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architect, George A. Robbins, Otis Building, Philadelphia. Owner, Gerald H. Deacon, Bluebell, Pa. Stone, concrete block, 2½ stories, 32x22 feet, hot water heat, electric light, tile work, tin roof, oak and pine floors.

Residence, Second street, Harrisburg, Pa. Contract awarded H. B. Alexander, Paxtang, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, F. S. Fornwald, care of architect. Stone, 2½ stories, 30x25 feet, shingle roof, hardwood, concrete and tile floors, hot water heat, electric light, tile work, flagstone.

Residence and Garage, Haverford, Pa. Contract awarded W. R. Dougherty, 1608 Sansom street, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Mrs. William White, Haverford, Pa. Stone, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, metal lath, tile work, bond, ornamental iron work.

School, Mastersonville, Pa. Contract awarded Harry Good, Ephrata, Pa., \$15,192. Electric, Mentzer Electric Co., Ephrata, Pa. Heating and plumbing, Leo Kob, Elizabethtown, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Ralpho Township School Board, J. W. Moyer, Secretary, R. D. No. 4, Manheim, Pa. Brick, cinder block, 30x83 feet, slag roof, pine floors, roof ventilators (heating, plumbing, electric separate).

Residence, Front street, Harrisburg, Pa. Contract awarded O. L. Armiger, 1507 South Cameron street, Harrisburg, Pa. Architects, Minich & Jamison, 23 North Third street, Harrisburg, Pa. Owner, A. Nissley, care of architects. Cinder block, 2½ stories, 60x50 feet, shingle and tile roof, hardwood floors, Warren Webster heat, electric light, tile work, casements.

Residence, Harrisburg, Pa. Contract awarded C. W. Strayer, State street, Harrisburg, Pa. Architect, B. E. Starr, 7 South Second street, Harrisburg, Pa. Owner, Ira Kindler, 25 South Nineteenth street, Harrisburg, Pa. Brick, 2½ stories, 30x40 feet, slate roof, hardwood floors, oil burner, tile work, vapor heat, electric light.

Hotel Strand (alts. and add.), Market street, Harrisburg, Pa. Contract awarded C. W. Lady, 2210 Green street, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, Max Cohen, on premises. General interior alterations, new brick front, pine floors, tile work, plumbing.

Studio (alts.), Bryn Athyn, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architect, Harold T. Carswell, Cunard Building, Philadelphia. Owner, Oliver Smith, Bryn Athyn, Pa. General interior alterations.

Residence and Garages, Susquehanna avenue, Rydal, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architect, George A. Robbins, Otis Building, Philadelphia. Owner, Wayne Herkness, Packard Building, Philadelphia. Stone, 2½ stories, 60x80 feet, irregular in size, slate roof, oak and pine floors, flagstone, vapor heat, electric light, tile and marble work, steel sash.

Building (Remodeling to Market House), West and Florence avenue, near Jenkintown, Pa. Contract awarded Roy Randall, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owners, Suburban Farms Market, Edward Stapler, President, Jenkintown, Pa. General interior and exterior alterations, stalls, incinerators, etc.

Warehouse, Pottstown, Pa. Contract awarded William H. Wiand, 368 York street, Pottstown, Pa. Electric awarded Keystone Engineering Co., 335 Walnut street, Reading, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owners, S. Liebovitz & Son, care of architect. Brick, 1 story, 68x114 feet, built-up roof, cement floors, waterproofing and dampproofing, caulking, fire escape, fire doors, steel sash, tile coping, electric light.

Residence Garage and Stable, Chester Valley, Chester County, Pa. Contract awarded H. M. Alderfer, Norristown, Pa. Architect, Louis S. Adams, Radnor, Pa. Owner, E. H. Tenbroeck, Chester Valley, Chester County, Pa. Stone, 2½ stories, 65x25 feet, shingle and tin roof, linoleum, tile, cement, pine floors,

Pennsylvania

Contracts Awarded

Church Superstructure, Twenty-second and Edgemont streets, Chester, Pa. Contract

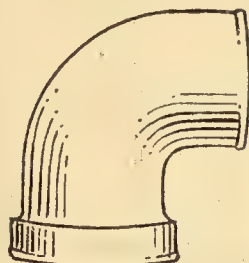
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gypsum plaster board, electric work, tile and marble work (heating, plumbing reserved).

Church (add.), Wernersville, Pa. Contract awarded Daniel Hunter, Reading, Pa. Architects, C. W. Bolton & Son, Schaff Building, Philadelphia. Owners, St. John Hain's Reformed Church, Rev. Ralph O. Starr, Wernersville, Pa. Stone, slate roof.

New Directors' Room, Eddystone, Pa. Contract awarded Frank J. Kerr, Eddystone, Pa. Plumbing to Joseph Covington, Eddystone, Pa. Electric, Charles Roth, Eddystone, Pa. Owners, Board of Education, Eddystone, Pa. 1-room addition.

Borough Hall (alts. and add. and repairs), Sharon Hill, Pa. Contract awarded Nichols & Beckett, Glenolden, Pa., \$12,989. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Sharon Hill Borough, H. E. Anschutz, Sharon Hill, Pa.

Store and Office Building, \$5,000. Main and DeKalb streets, Norristown, Pa. Contract awarded Charles Quillman, Norristown, Pa. Owners, Quillman Hardware Co., Norristown, Pa.

Store (alts.), \$1,500. Airy and DeKalb streets, Norristown, Pa. Contract awarded Heavner & Guthridge, Norristown, Pa. Architect, private plans. Owners, Jones Drug Co., Norristown, Pa.

Concrete Tank Foundations, \$1,800. Norristown, Pa. Contract awarded F. R. Heavner, Norristown, Pa. Owners, Norristown Magnesia & Asbestos Co., Norristown, Pa.

Extension Building, No. 50, and Miscellaneous Alterations, \$35,000. Bridgeport, Pa. Contract awarded F. R. Heavner, Norristown, Pa. Architect, private plans. Owners, Continental Diamond Fiber Co., Bridgeport, Pa. General alterations and new concrete built-up roof.

Paving Streets and Repair Work, Sharon Hill, Pa. Contract awarded Union Paving Co., 123 South Twenty-first street, Philadelphia. Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Sharon Hill, H. Anschutz, Sharon Hill, Pa.

Electric Work, Contract No. 11-A. Inverted syphon. Chester, Pa. Contract awarded Harry A. Haynes, Chester, Pa. Engineers, City Engineer and Robert C. Wheeler, 36 State street, Albany, N. Y. Owners, City of Chester, Pa.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Cameron County, R-100, Portage Township. Bridge over Sinnemahoning, Portage. W. W. Wolf & Co., Jersey Shore, Pa., \$32,262.50.

Armstrong County, R-67, Plum Creek, Kitting and Manor Townships. One course reinforced concrete, bridges (2). Connell & Laub, Richfield Springs, N. Y., \$725,225.58.

Chester County, R-147, North Coventry Township. One course reinforced concrete. Dalton Brothers, Paoli, Pa., \$7,795.75.

Washington County, R-118, Sec. 5, Charleroi and Speers Boroughs. One course reinforced concrete and vitrified brick pavement. Donora Construction Co., Donora, Pa., \$93,155.40.

Montgomery County, Route 646, Horsham Township. One course reinforced concrete. Graham Construction Co., Rothville, Pa., \$171,858.61.

Residence (alts. and add.), Ithaca, Pa. Contract awarded J. Morris Rossiter, Wayne, Pa. Architect, R. Brognard Okie, 396 Smedley street, Philadelphia. Owner, Mrs. Thomas Newhall, on premises. Stone, brick, hollow tile, 2½ stories, 18x30 feet, 20x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

New Jersey Construction News

Schools (3), \$90,000. New building, Mantua (6 rooms); 2 room addition, Barnesboro, N. J. 2 room addition Sewell, N. J. Work contemplated. Owner, Mantua Township, Board of Education, Mantua, N. J.

Garage, Virginia avenue near Beach, Atlantic City, N. J. Work contemplated in 1930. Architect, W. Macy Stanton, Land Title Building, Philadelphia. Owners, Morton Hotel, on premises. Brick, stone, steel, 5 stories, 600-car capacity, front to conform with present building.

Grade School, \$42,500. To replace Powell Street School, Gloucester, N. J. Work contemplated. Owners, Board of Education, Gloucester, N. J. Also new heating plant in Monmouth Street and Hunter Street Schools.

Hotel, Sovereign avenue and Beach, Atlantic City, N. J. Preliminary plans in progress. Architect, W. Macy Stanton, Land Title Building, Philadelphia. Owner, name withheld. Brick, steel, stone, concrete, 22 stories.

Hotel, Pacific and Iowa avenues, Atlantic City, N. J. Preliminary plans in progress. Architect, W. Macy Stanton, Land Title Building, Philadelphia. Owner, name withheld. Brick, steel, stone, concrete, 22 stories.

Residence, Cranbury, N. J. Revised plans in progress. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owner, A. L. Burrough, Cranbury, N. J. Brick, 2½ stories, 58x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Superintendent's Residence, New Lisbon, N. J. Plans about complete; ready for bids in a week. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owners, State Hospital for Insane, New Lisbon, N. J. Brick, 2½ stories, 75x38 feet, shingle roof, hardwood floors, plumbing, central heat, electric light, tile work.

Apartment House, Thirty-fourth and Federal streets, Camden, N. J. Plans about completed. Architect, Roy G. Pratt, 1420 Walnut street, Philadelphia. Owner, care of architect. Brick, stone, steel, 3 stories, 86x138 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, 48 apartments. Evans-Falcone Co., 1420 Walnut street, Philadelphia, will take sub-bids.

Residences (26), \$3,000 each. 1300-50 South Merrimac road, Camden, N. J. Permit issued. Architect, private plans. Owner, Ervin Fister, Maple Shade, N. J. Brick, 2 stories, 14x40

feet, slag roof, pine floors, hot water heat, electric light.

Hotel and New Stores (add.), Michigan avenue and Boardwalk, N. J. Architects taking bids due August 22nd. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owners, Hotel Dennis, on premises. Brick, reinforced concrete, steel, 7 stories and basement, 72x52 feet, architectural terra cotta, ornamental iron work, cinder concrete block, demolition, piles, limestone, bluestone, granite, waterproofing, slate and tile roof, metal lath, marble and tile work, bronze windows, safety treads, bronze thresholds, plumbing, electric work, elevator, steam heat.

Dormitory, Glassboro, N. J. Architects, Guilbert & Betelle, Newark, N. J. Owners taking bids due September 4th, 2.30 P. M. Owners, State Normal School, care of Board of Education, Trenton, N. J. Brick, semi-fireproof, 3 stories and basement, 167x45 feet, slag roof, wood floors, heating, lighting, ventilating, plumbing. Certified check, 5%.

Garage, Trenton, N. J. Architect taking bids due no set date. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owner, Christopher Carlidge, 920 Berkley street, Trenton, N. J. Brick, 1 story, 32x22 feet, slate roof, concrete floors, electric light.

Fire House, Woodbury, N. J. Owners taking bids. Architect, H. M. Claisz, 225 South Sixth street, Philadelphia. Owners, City of Woodbury, Woodbury, N. J.

Service Building, New Jersey State Hospital for Insane, Greystone Park, N. J. Owners taking bids due August 27th. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Road Work, New Jersey. Owners taking bids due September 4th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 25, Sec. 4A, Cranbury Turnpike to the Raritan River Bridge, Middlesex County. Reinforced concrete pavement, reinforced concrete foundation.

Route 31, Sec. 5, Chester to Gladstone, Morris and Somerset Counties. Earth excavation, rock excavation, reinforced concrete pavement. Certified check, 10 per cent. Deposit, \$10.

Bridges (6), over Homestead avenue, East Brinkerhoff avenue, East Central Boulevard,

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East Palisades Boulevard, East Edsall Boulevard and Oakdale avenue, Palisades Park, Bergen County, N. J. (Route 6, Section 3). Owners taking bids due September 4th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation excavation, concrete, structural steel, reinforcing steel. Certified check, 10 per cent. Deposit, \$10.

Conduit Appliance and Appurtenant Work, Kaighn avenue, Round Point road, Pensauken, N. J. Owner taking bids due August 26th, 8 P. M., D. S. T. Owner, Township of Pensauken, R. V. Peabody, clerk, Pensauken, N. J. Engineers, Remington, Vosbury and Goff, 509 Cooper street, Camden, N. J. Deposit \$20.00; refund \$10.00.

Church, Somerdale, Camden County, N. J. Ready for bids in a week. Architects, Lackey & Hettle, Camden, N. J. Owner, First Presbyterian Church, Somerdale, Camden County, N. J. Cinder block, stucco, 1 story and basement, 34x80 feet, slate roof, pine floors, steam heat, electric light, steel sash and trusses.

New Jersey Contracts Awarded

Office (add.), Trenton, N. J. Contract awarded Snow & Faske, 30 Hillcrest avenue, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Puritan Rubber Co., Perrine avenue, Trenton, N. J. Brick, steel, frame, 2 stories, 40x70 feet, slag and tin roof, wood deck, maple floors, rubber tile, roof ventilators, fire doors, steel skylights, steel sash, tile work, heating extension, electric work.

Portable Schools (2), Chelsea Heights and Venice Park, Atlantic City, N. J. Contract awarded Lam Building Co., Humphreys Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, H. H. Young, Secretary, Park Place and Pacific avenue, Atlantic City, N. J. Timber, asbestos board and brick, 1 story, 2 rooms, pine floors.

Store and Apartment, 524 Kaighn avenue, Camden, N. J. Contract awarded S. Levy, 1214 Kaighn avenue, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Morris Birrer, care of architect. Brick, concrete block, 2 stories, 20x56 feet, slag roof, oak and maple floors, hot water heat, electric light, tile work, metal ceilings, plate glass.

Residences (4), \$2,700 each. 1739-45 South Ninth street, Camden, N. J. Contract awarded Edward McGrue, 2044 Fitzwater street, Philadelphia. Architect, private plans. Owners, McGrue Construction Co., Wilson Building, Camden, N. J. Brick, 2 stories, 14x34 feet, slag roof, pine floors, warm air heat, electric light.

Drawbridge, Dorset avenue, Ventnor, N. J. Contract awarded Eastern Engineering Co., 4 North North Carolina avenue, Atlantic City, N. J., \$357,900. Engineer, A. H. Nelson, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic County Board of Freeholders, F. F. Doughty, Guarantee Trust Building, Atlantic City, N. J. Bascule lift type, 36-foot driveway, (2) 8-foot sidewalks. Work to start after Labor Day.

Bridge, etc., Salem, N. J. Contracts awarded. Owners, Board of Freeholders, Salem County, N. J. Bridge across Watsonmill Pond, Alloway Township, George A. Charlesworth, Elmer, N. J., \$8,477.70. Culvert, across Oldman Creek, C. Fiske Campbell, Bridgeton, N. J., \$1,365.73. Concrete road, Elmer-Hartingville Highway, Giacomo Company, Bridgeton, N. J., \$3,657.63.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, State House Annex, Trenton, N. J.

Route 25, Sec. 18 and 19, Cont. 26, bridge over Elizabeth River. J. F. Chapman, Hillside, N. J., \$762,389.50.

Route 39, Sec. 7, bridge over Springers Creek and Munkingum Creek. William C. Cook, Mt. Holly, N. J., \$29,884.50.

Route 29, Sec. 4, Mountinside to Somerset County Line, Union and Somerset Counties. Freehold Construction Co., Freehold, N. J., \$444,293.90.

Route 39, Sec. 8, Indian Mills to Great Swamp, Atlantic and Burlington Counties. H. Lem White, Collingswood, N. J., \$330,644.44.

Paving, Black Horse Pike, N. J. Contract awarded F. A. Canuso, 804 South Twelfth street, Philadelphia, \$383,000. Engineer, B. M. Smucker, Court House, Camden, N. J. Owners, Board of Chosen Freeholders, Camden County, William Myers, Camden, N. J.

Miscellaneous Construction News

Residence, Westover Hills, Wilmington, Del. Plans in progress. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, Carl

Coyne, care of architect. Stone, 2½ stories, 30x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble, casement windows.

Nurses' Home, Wilmington, Del. Architect about ready for bids. Architect, C. R. Hope, DuPont Bldg., Wilmington, Del. Owners, Homeopathic Hospital, care of architect. Brick, steel, 3 stories, 97x92x33 feet, composition roof, reinforced concrete floors, hollow tile, safety treads, waterproofing and damp-proofing, fire doors, steel sash, tile, marble, metal lath, electric light, heating extension.

Hospital (add.), Wilmington, Del. Architect about ready for bids. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Homeopathic Hospital, care of architect. Brick, concrete, steel, 4 stories, 70x40 feet, composition roof, reinforced concrete floors, elevators, safety treads, water-tile, marble, terrazzo, metal lath, electric light, heating extension.

Residence, Westover Hills, Wilmington, Del. Architects about ready for bids. Architects, Pope and Manning, Equitable Building, Wilmington, Del. Owner, W. P. Regestein, 716 Coverdale road, Wilmington, Del. Stone, 3 stories, 70x50 feet, slate roof, hardwood floors, electric light, hot water heat, oil burner, tile work.

School, near Talleyville, Brandywine Hundred, New Castle County, Del. Owners taking bids due August 29th at 11 A. M. (Daylight Saving Time). Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State Board of Education, H. V. Holloway, Secretary, County Building, Wilmington, Del. Brick, concrete, timber, 1 story, 199x67 feet (plumbing, heating and ventilating and electric separate). Certified check, 5 per cent. Deposit, \$25.

Colonial Residences (5), Rochester, N. Y. Plans in progress. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Kodak Employee Realty Corporation, Rochester, N. Y. Brick, stone, frame, 2½ stories, 25,000 cubic feet, hot water heat, tile work, electric light, 1 and 2-car garages, stained shingle roof, hardwood floors, plumbing.

Residences (8), Rochester, N. Y. Plans completed. Owners taking sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Kodak Employee Realty Corporation, Rochester, N. Y. Brick, frame, 2½ stories, 25,000 cubic feet, stained shingle roof, hardwood floors, plumbing, hot water heat, electric light, tile work, 1 and 2-car garages.

Nurses' Home, Cumberland, Md. Architects taking new bids due August 24th. Architects, Zantinger, Borie & Medary, Otis Building, Philadelphia. Owners, Cumberland Memorial Hospital, Cumberland, Md.

Administration Building, Wellesley, Mass. Will be ready for bids about October 1st. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Wellesley College, Wellesley, Mass.

Robinson Hall, Washington, D. C. Low bidders, Stofflet & Tillotson, Wesley Building, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Sibley Memorial Hospital, Washington, D. C.

Road Work, Delaware. Low bidders. Owners, State Highway Department, Dover, Del. Contract 119, The Levels Road, 3.96 miles. Knox-Mariani Co., Ardmore, Pa., \$59,071.50.

Contract 135, Farmington-Andrewsville Traffic Bound Road. Field, Barker & Underwood, Commercial Trust Building, Philadelphia. Stone, \$20,169.50. Slag, \$16,609.58.

Contract 137, Noxentown Road, .95 mile. Knox-Mariani Co., Ardmore, Pa. Metal joint, \$27,604. Non-metal joint, \$27,354.

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Mr. M. J. French, formerly with Franklin M. Harris & Co., Builders, is now with Bowden Construction Company, Builders, 1607 Summer Street, Philadelphia.

Karl F. Otto, Architect, formerly of 1828 Arch Street, Philadelphia, announces the removal of his offices to the Uptown Theatre Building, 2240 North Broad Street, Philadelphia. Phone, Columbia 3060.

The volume of construction job activities during July declined both from the previous month and from the index level of the same month last year according to a statistical study just completed by the Associated General Contractors of America. This is interpreted as an indication that the rate of activities on projects under way, as measured by volume of shipments of construction materials, is beginning to reflect the decline in the volume of contract awards which has been in evidence during most of this year.

The index figure for job activities during July was found to be 218 as compared with 231 in June and 238 in July last year. Despite this recent reduction in activities as compared with the records of similar months in past years the construction performance for the first seven months of 1929 approximately equaled that of the same period in 1928.

This is explained by the activities on uncompleted projects for which contracts were awarded last year. The heavy volume of carried over commitments began to be cleared up in May this year and current activities are proceeding at the new levels dictated by the lower volume of contract awards.

The situation is not deemed critical by the contractor's association since most of the decline has occurred in the speculative type of residential construction, which is declared to have been proceeding at an inflated rate in previous years. Recession in this type of building is deemed to be beneficial and it is anticipated that once the flow of funds turns from the stock market to other channels that sound investment construction will again proceed.

THE GENERAL CONTRACTOR AND THE "SUB"

By H. P. BURRELL, Chief Engineer,
MacArthur Concrete Pile Corporation

On important construction work, sub-contractors are generally specialists, and more and more they have become experienced, reliable experts, authoritative in their own fields, and provided with adequate organization and equipment.

The relationship between such men and the general contractors is substantially the same as that between the general contractor and the owner, in so far as the execution of, and payment for, the work is concerned, and as to the obligations, amenities and ethics involved.

Except under special conditions there should be no direct financial relations between sub-contractor and owner, archi-

tect, or engineer. Unless the architect or engineer has some special reason and wishes to put his own inspector on the work, the general contractor's superintendent or inspector should direct, examine and approve or reject all work and operations. Sometimes municipal inspectors are assigned to the work, with the arrangement that they are to be paid by the sub-contractor, and such cases have proved honest and satisfactory.

Great Care Urged

The general contractor should exercise more scrupulous care, and make more rigid requirements in the selection of a sub-contractor than the owner does in the selection of the general contractor, both because the general contractor is responsible to the owner for the sub-contractor's work and because the general contractor is often anxious to get the sub-contractor's work done at the lowest possible price. If the price is too low to provide a fair profit, the subcontractor is inevitably disheartened and handicapped by lowered morale before the work is even commenced, and no matter how honest and competent he is, there is a strong, even if unconscious, temptation to take chances on labor and materials, to cut corners, and to unduly economize in many ways that can hardly be prevented, and which impair, even if they do not endanger the work.

On important work, the general contractor generally is assured of the integrity, experience, and financial ability of the sub-contractor, before awarding the work to him, and therefore seldom requires a bond, although one is sometimes paid for by the owner.

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specifications that, in general, provide a lump sum price for the estimated unit quantities and fixed prices for possible changes in requirements, types or conditions, for increased or diminished quantities, extra work and materials, and especially for installation and organization charges if the work is stopped, and for all expenses caused by delays. All of these items should be covered before the contract is signed, so as to avoid delay and uncertainty as to the terms under which the work is to be done. This is not the case if these points are left undecided, until a contingency has arisen. Sometimes we arrange to use portions of the general contractor's equipment.

The sub-contractor often gives estimates on the same job to several competing general contractors before the general contract is awarded, and these estimates are usually identical as far as the conditions and requirements are the same, but may vary if different contractors have different working plans and schedules, or else do different portions of supplementary work themselves.

Careful study and coordination between general contractor and sub-contractor, before the former makes his bid, will generally be advantageous to both.

Sub-contractors should not enter into competition with general contractors by bidding on the whole of a large construction job in order to get their own special part of it; it is unfair, unnecessary and unprofitable in the long run. In general, the relations between general contractors and sub-contractors are harmonious and profitable, and unreliability and deliberate trickery are becoming more and more infrequent.

"Pernicious Practice"

I believe that some few general contractors have developed the pernicious practice of submitting bids, as for public

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schools in New York, that are materially lower, often as much as 10 per cent. lower, than the sum of the estimates of sub-contractors previously invited by them. In case they receive the contract, they demand reductions of perhaps 15 per cent. in the sub-contractors' bid, and if they are not forthcoming, a search is made until reckless, incompetent or tricky sub-contractors are found to undertake the work below honest cost prices.

This, of course, insures bad results; puts a premium on poor work and material, discredits fair bids, demoralizes business and works great hardship and loss to competent, conscientious contractors and sub-contractors. Such practices should be most strenuously opposed and should debar their perpetrators from competitions.—*Associated Contractor.*

PROFIT IN CIVIC PRIDE

By James E. Serven

The people in your town—in every town—are developing a taste for better things. This demand is felt in all business but it has its most serious aspect to you and the one in which you are vitally interested in the way it will affect the future of your own locality. In the trend for better living standards there enters first that basic investment—real estate. Property values are determined by conditions which in most cases may be governed by the owners themselves. To keep pace with the modern ideas of value and desirability, each community is faced with the problem of maintaining and increasing its attractiveness to the outside world.

Generally, new business must be drawn from other sections which have less to offer in meeting the particular demands of those individuals who seek the change. The prospective newcomers may be grouped as to representative needs based also on the demands of those comprising the present population. Then an intelligent programme may be followed in providing these necessities.

In this article there are reviewed for you some of the methods employed by progressive communities—methods which returned a profit through increased value that many times repaid original expenditure and effort. There is probably no planning which will produce an ideal city, but foresight, vision and the employment of practical principles will go far in new towns and old towards increasing the civic pride and making the community a better place in which to do business and to live.

Tearing down buildings, the widening of streets, elimination of grades and changing of sewers, drains and other underground connections has constituted a large portion of waste in the general growth of our municipalities. In the future, this may be avoided to a much greater extent. Most of this waste could have been avoided by preparing comprehensive plans for the development of these cities. More and more City Planning Boards are being formed to study the present and future needs of their communities and to provide for them in a way that combines utility with beauty. The old theory was based on the belief that as long as a building or "improvement" served satisfactorily the purpose for which it was intended—then it had accomplished all that was desired. Today,

this is not enough. These things must be planned also for future needs; they must be pleasing to the eye, correct in design and in harmony with their general surroundings. They must be inviting in atmosphere, attractive in their treatments and in appropriate good taste.

Many of the communities which have won their popularity through united community planning and pride in their homes, businesses and industries have first centered their efforts on the transportation facilities, the depots, stations and highway approaches.

How Others Accomplish Results

There is an outstanding case of a small suburban town which for years had slumbered along content with moderate, uncontrolled development. A few young men of the modern school were attracted to this town and through their efforts, a business men's club was formed. This club met once each week for luncheon and soon there were introduced practical plans of civic improvement that long had been needed. One of the first things considered was the railroad station. This building had been erected years before, an architectural monstrosity, wholly inadequate for the service which was needed. It created a bad first impression of the town. A committee was formed and through its efforts the railroad finally agreed to contribute an equal share with the town in beautifying the station and adjoining park. This was done and an unbelievable transformation resulted. In the two years since this progressive civic movement was started, business property has doubled in value and many other general benefits have accrued from this awakening to cooperative effort.

Signs—Their Use and Abuse

One of the unsightly and ugly practices in a community is the promiscuous placing of signs, posters and billboards on its buildings, along its highways and everywhere an opportunity offers. In many cases, this is done with utter disregard for local interests. Ordinances have been passed against these methods in many towns and others will come to the realization that their best interests must be in some way protected and this evil prevented. There are types of signs which serve a definite purpose. These may be made attractive and decorative and should be kept in condition of good repair, as well as freshly painted. In Larchmont, New York, a very progressive realty board has solved the "For Sale" sign problem in an unusually satisfactory way. All new listings of houses to be sold are listed with the entire membership of this organization, and one standard sign is placed on the property. On all houses that are unoccupied, a small metal box is securely fastened to the front door frame casing. In this box is placed the front



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door key of that particular house. Each member of the realty board has a master key which opens all the metal boxes and thus produces the necessary keys to the houses when visiting them with clients. Houses are kept locked and clean in this way, eliminating the waste of time in procuring keys or the risk involved in leaving the doors unlocked.

Value in Restrictions

Building codes and general restrictions may be made skillful instruments in designing high character developments. They are becoming more necessary and should be worked out by experts whose experience and ability will lay down a reasonable and workable plan, neither top-heavy nor full of loop-holes. Zoning according to business and residential development also should be studied in your plan of an improved community, for it means much in the determination of property values. Along these lines also comes the problem of providing definite regulations encouraging more attractive roadside refreshment stands, small real estate offices, and those other buildings of a comparatively temporary nature.

Landscaping is Important

The planting of trees as a civic undertaking tends to assure a greater future in natural beauty. These trees may be secured from the state nurseries at very moderate cost. In laying out new developments, there is a decided tendency towards getting away from the conventional "gridiron" street plan, toward laying out the streets with more graceful and interesting curves to follow the natural contour of the ground, after making a careful study of topographical conditions. This method makes the street suit the ground rather than the more expensive method which makes the ground fit the street.

A central building for civic activity, public offices, and fire and police departments is desirable under most conditions. This may be made to be a feature of the town in architectural beauty, and placed on ground that is appropriately landscaped to provide the proper setting.

It develops upon every property owner, every merchant, every citizen in his respective town to contribute towards a quality of design, construction and general planning that will raise the standards, attract outside interest, develop a desire for residence and business association, and thus bring the tax ratio to a minimum and the facilities and beauty to a maximum. Such pride is profitable.

—*Building Age.*

FUTURE BUILDING COSTS

Thousands of prospective builders, who have been waiting ever since the war period for construction costs to drop back to something approaching the pre-war

level, have been disappointed. Prices haven't dropped to any appreciable degree. Materials vary a little now and then but they hold up. Labor costs have increased all along the line.

Now in the offing is the 5-day week for the building trades. That means less production per week at the same cost as now. Less working hours at the same scale of wages.

It means that material prices will have to recede from their present standards if even the present cost level of our homes is to be maintained.

The chances are that ten years to come houses will cost considerably more than they do now.

For these reasons it behooves the present-day home builder to do the job well, and to do it soon. For other reasons of economy he should make certain that his home possesses those qualities of permanence that make for economy of upkeep and delay in deterioration.

Common brick homes are unsurpassed in durability. They require the minimum in repairs; they are cheaper to heat than any other; they retain their complexion without the aid of a paint brush; they cost less to insure, and they always have the highest resale value.

The average man builds but one house in a lifetime. He should make sure that it is well built, that the materials used are durable. Brick is all of that.

In every one of the older cities are fine old brick homes that attest this, monuments to the good judgment of the pioneer builders of the Colonial period.

You may not be interested in building a monument to yourself but you should be interested in seeing that a quarter century hence your house will sell for what it costs now.

Brick homes are scoring such records every day.—*Building Economy.*

COLLEGES EXPAND COURSE IN BUILDING VENTILATION

Air Conditioning Plays Important Role in Engineering Curriculums of Schools

Add to architecture and other building sciences, the fact that America's leading universities are developing more comprehensive courses in air conditioning and mechanical ventilation.

With the general public emphatically demanding controlled ventilation and artificial cooling of buildings, the big universities are endeavoring to keep pace with the trend of the times by training engineers who are experts on mechanical control of air for health and comfort.

Such schools as Harvard, Yale, Columbia, Michigan, Ohio State, Kentucky, Illinois, Purdue, Mass. Tech., and many others, have expanded their courses in ventilation and students specializing in these subjects have increased in number

tremendously, the engineering deans announce. Many of the municipal universities have incorporated a ventilation course in their curriculums and with the beginning of the fall term other schools will feature air conditioning as a part of the engineering work. Even high schools in some cities have started classes in ventilation. In Youngstown recently the science classes of the Woodrow Wilson Junior High were taken through the big steel plants there to study the ventilating systems and methods of artificially cooling steel workers.

During the late spring term, the Carnegie Institute of Technology in Pittsburgh started a new short course in fans which also was available to night students. Included in the outline of studies for the new course are properties of air and gases, methods of measuring pressure, methods of measuring air, types of fans, theory of fans and calculations of characteristics, fan testing, air ducts for ventilating and heating for forge shops, mine ventilation and other problems, fan designs and selection of fans for mine ventilation, forced and induced draft for furnaces and building ventilation.

The Mellon Institute of Pittsburgh recently completed extensive studies of the soot and smoke problem and methods of controlling and combating it. This research included a careful "dust count" to determine the amount of dirt floating around in the air and breathed daily by human beings. Colgate University recently completed a very unique laboratory in which any kind of air conditions wanted can be created by mechanical means. Although air conditions considered best for the health of white rats used in biological studies are maintained in this laboratory, the system for artificially producing weather conditions is available for ventilation students.

An air research laboratory for directing all kinds of studies on air conditions and the best methods to control them in buildings has been maintained for a number of years in the United States Bureau of Mines in Pittsburgh. The laboratory has been used for scientific work by students of the University of Pittsburgh and other prominent schools. The American Society of Heating and Ventilating Engineers contributes to the support of this laboratory.

The corporation that is not making a profit is a menace to a healthy continuation of business, declared Charles F. Abbott, Executive Director of the American Institute of Steel Construction, in an address before the Gray Iron Institute meeting at the Downtown Club. Mr. Abbott insisted that we have been giving more attention to volume and not enough to production costs, and if this continues

for long there will threaten an unusual number of failures.

He said in substance:

President Hoover's report on Recent Economic Changes contains a most significant chapter on price movements. It needs no great amount of acumen to read between these lines. Most of industry's difficulties have been caused by the existence of excess productive capacity over current demand and without the means of obtaining any relief. Changed ratios between supply and consumption are prevalent in all important industries throughout the world.

Extreme pressure to obtain business has resulted in general price cutting reaching a point where only a relatively few most efficient plants earn a reasonable profit and even their margin has been seriously jeopardized as the result of unrestricted competition. Such conditions will not permit a definite price policy. Buyers know that inside prices are obtained under sufficient pressure, and all confidence in the sellers and all consideration of quality and service are dissipated, and the market degenerates into a price cutting orgy.

Many concerns gain the reputation of trading for every order and consequently salesmanship becomes utterly demoralized. I wonder if any of them realize what such tactics means in actual dollars and cents. Unless a cut of 10 per cent. in the price brings in a 50 per cent. increase in business you will not break even. In other words it is necessary to do half again as much business in order to equal the profit on the former volume at the former price.

A 5 percent. cut requires 18 2/3 percent. more volume.

An 8 percent cut. requires 35 1/8 percent more volume.

A 10 percent cut requires 50 percent. more volume.

A 12 1/2 percent cut requires 75 percent. more volume.

And a 15 percent. cut requires 112 1/2 percent. more volume.

Putting it still another way, if the price on a \$100 sale is cut 15 percent. it is necessary to sell \$112.50 more or a total of \$212.50 in order to receive the same total profit that would have been made on the \$100 sale at the former price.

It is axiomatic that under highly competitive conditions there comes a time when the margin between irreducible costs and profits with the most efficiently operated concerns finally narrows to the point where prices will not recede further. Profits become zero, and industry must learn that a million times nothing is still nothing. No amount of new business will then restore a semblance of profit.

The man who loses his mental balance is soon placed where he can do no harm to himself or to others. But when a man

loses his business balance and cuts his prices below the profit line, his contemporaries must suffer until economic death stops his unfair competition. There is only one way to sure success: sales prices must be established upon a formula of total cost plus profit. I offer you this outline for a courageous business policy:

1. Modern methods of estimating costs.

2. Modern equipment and efficient operation.

3. Statistics of production shipments and capacities compiled at a central source.

4. The declaration of a definite price policy.

Application of the sound principles of cost accounting constitutes one of the best guarantees of continued prosperity. Disregard of these principles is a form of business suicide. It is axiomatic throughout the commercial and industrial world that every business transaction should be based upon the fundamental formula of cost plus a legitimate profit. Orders taken at cost, or less than cost, lead to the door of the auctioneer.

There may be occasions when it is necessary to accept business at cost, but such occasions should be exceptional. When the necessity arises, the possession of an accurate knowledge of costs will make possible a complete realization of the exact risks involved. The point is to know the costs, and to act upon this knowledge rather than upon guess-work. In the overwhelming majority of cases, business would be rejected if the figures made it clear that the price was only equal to, or less than, the costs of production.

The application of a uniform system of cost accounting throughout industry would be a progressive step toward consistent prosperity. There is no need for any cost figures when selling prices are to be fixed by a system of outguessing competition. The principal purpose of obtaining accurate costs is to establish a base upon which profits may be added. The sum total then becomes the sales price. This method eliminates all consideration of what competition may do and is the only process that can insure successful operation.

As long as selfishness, personal animosities, jealousies and hatreds exist, intelligent practice will give way to a fight to obtain the business no matter what the consequences may be. It is a case of shooting wildly into the air, trusting to chance that an order may be taken away from some competitor even though he may be entitled to it.

The acceptance of more constructive methods is essential before there can be any need for cost prices. Eventually this need will become recognized. Profits will then become the incentive with less consideration devoted in trying to guess what price competition may quote. The

use of accurate costs advances intelligent competition. Inaccurate costs, obsolete equipment or inefficiency in operation develops the ignorant destructive form of competition from which the best organized concerns become infected whenever ignorance prevails.

The practical approach to the problem rests in education, to bring about a complete recognition of the vital need for profits which become possible only when all members of an industry accept and apply the only possible means by which profits can be obtained. This method calls for control to be vested in costs upon which selling prices will be based.

The plants operating on the basis of the highest efficiency are the most forceful advocates of distributing intelligent cost data and the collection of statistics realizing that their participation serves as the most effective means of influencing others, who may be operating ill-advisedly, from weakening the market or indulging in destructive competition.

No more important undertaking awaits the attention of industry than these factors to promote uniform cost accounting. The pursuance of such an activity would prove to be the transitory period from that of a constant lowering of the price structure to a resumption of selling prices based upon costs plus profit.

Unfortunately, in face of the high record in active demand for goods, prices and profits have not as a rule followed the economic law that normally calls for improvement as demand increases. The problem in nearly all industries is not a lack of business, but the failure to maintain prices that include a reasonable profit. Business men are now called upon to blaze a new trail.

The shifting in economic factors during the past few years has brought about unusual conditions. New problems have been created that have called for co-operative organizations in order that the interests of each industry might be safeguarded. It has been a trying period that has forced programs of standardization, elimination of waste, efficient production, cost reductions and aggressive salesmanship and advertising. Those who have heeded the signs of the times have profits, while those who have hesitated are experiencing the ill effects of these new economic conditions.

Mr. Hoover's committee points out bluntly that wholesale prices have been declining during the past seven years, and this in the face of a rising tide of business and personal prosperity for labor. If there is any tendency toward a greater stability of prices, however, it must come from the more general recognition on the part of business men individually and collectively that there is a greater need today than ever before for knowing accurately their costs and their right to expect a reasonable profit.

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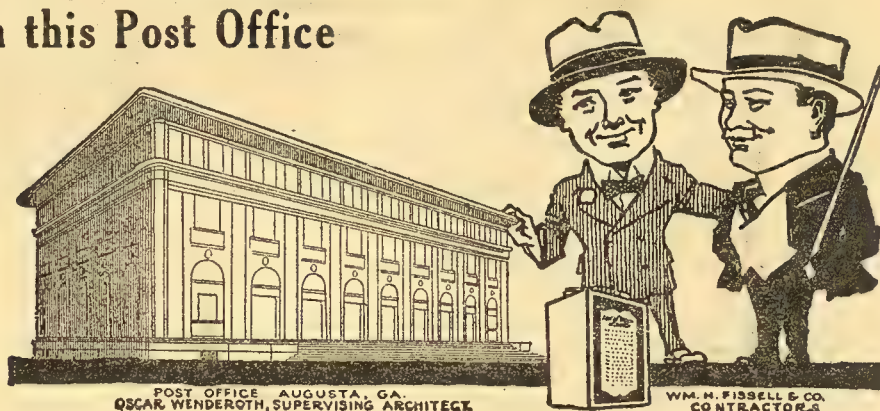
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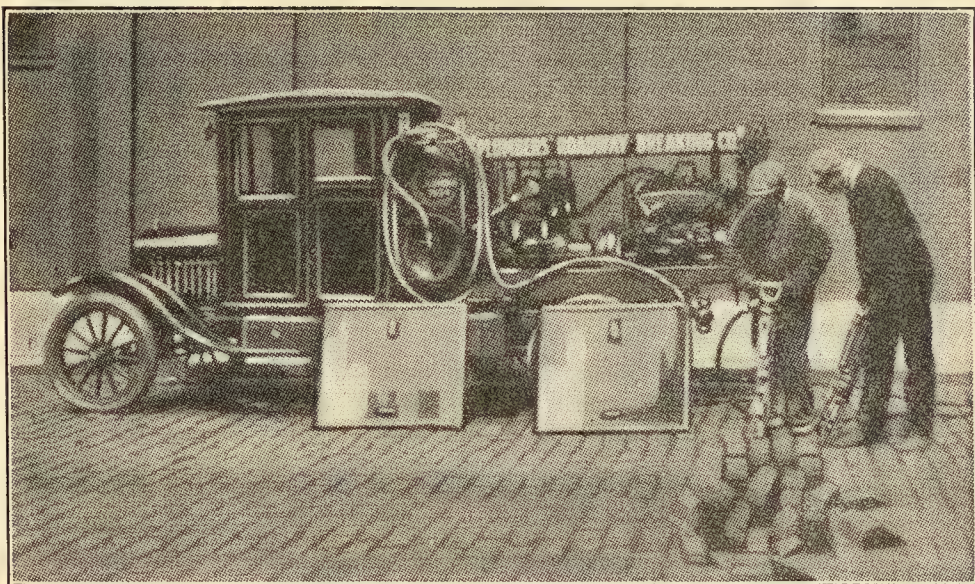
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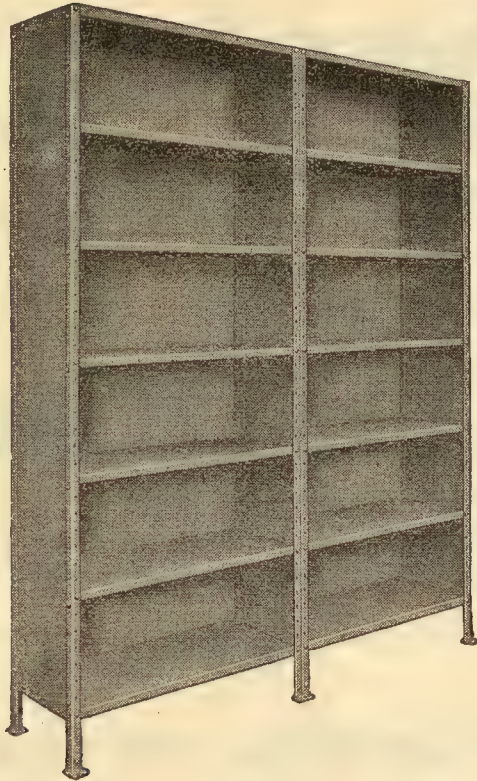
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VOLUME XLIV

Number 35

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PHILADELPHIA

August 28, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Commercial Building, 13 South Thirty-sixth street, Philadelphia. Preliminary plans in progress. Work contemplated. Architect, Joseph A. Roletter, 1931 Ritner street, Philadelphia. Owner, name withheld. Brick, steel.

Residences (20), Fourth and Erdrick streets, Philadelphia. Plans in progress. Architect, private plans. Owner, Benjamin Cylinder, 249 Rockland street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, basement garages.

Club House (alts. and add.), 1317-19 Spruce street, Philadelphia. Plans about completed. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Engineers' Club of Philadelphia, on premises. New front, increasing size of auditorium, dining room, etc.

Apartment House, South side Logan street, West of Germantown avenue, Philadelphia. Plans about completed. Owners will build and are taking sub-bids. Architect, A. N. Dobbins, 1718 Cherry street, Philadelphia. Owners, Aldine Construction Co., 1701 Arch street, Philadelphia. Brick, cast stone, 3 stories and cellar, slag roof, hardwood and linoleum floors, incinerator, door beds, tile work, electric work, vapor heat.

Police Stations (3), (1) Holmesburg Section, Philadelphia; (1) Manayunk-Roxborough Section, Philadelphia; (1) near Bucks County Line at Fox Chase, Philadelphia. Work contemplated. Owners, City of Philadelphia, Department of Public Safety, L. B. Scofield, Director, City Hall, Philadelphia.

Bank and Office Building, Northeast Corner Market and Juniper streets, Philadelphia. Architects taking bids due September 12th. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Market and Juniper Building Corporation, care of Albert M. Greenfield, Bankers' Trust Building, Philadelphia. Brick, reinforced concrete, steel, granite, 24 stories and basement, 180x58 feet, built-up tile roof, concrete floors, hollow tile, elevators, caulking, waterproofing and damp-proofing, architectural terra cotta, bronze work, ornamental iron, casement windows, bond, hollow metal doors, steel sash, tile, marble and terrazzo work, metal lath, electric light, rubber tile floors (heating, ventilating, plumbing, vault doors, refrigerating machinery reserved).

Factory, Erie avenue, F to G street, Philadelphia. Architect taking bids due September 5. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, I. Fischman & Son, Tenth and Allegheny avenue, Philadelphia. Brick, reinforced concrete, steel, limestone, 1 and 2 stories, 480x375 feet, slag roof, cement floors, architectural terra cotta, metal lath, tile, marble, bronze.

Building (alts.), Zoological Gardens, Thirty-fourth and Girard avenue, Philadelphia. Owners will build. Engineers, Mensing & Company, Presser Building, Philadelphia. Owners, Philadelphia Zoological Gardens, care of C. Emerson Brown, on premises. Iron work, (2) ventilating units.

Residences (18), Bleigh street, between Frankford avenue and Erdrick street, Philadelphia. Owners taking sub-bids. Architect, private plans. Owners, Boardman & Smith, 1524 Chestnut street, Philadelphia. Brick, 2 stories and basement, 15x40 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work.

Residence, Oak Lane, Philadelphia. A. C. Strong, 515 North Fifty-fifth street, Philadelphia, taking sub-bids. Architect, private plans. Owner, name withheld. Brick, stone, 2½ stories, 28x38 feet, wing 15x20 feet, garage 18x22 feet (hardwood floors, tile and marble work reserved), painting and glazing, hot water heat, electric light.

Store Building, Frankford avenue and Granite street, Philadelphia. Lessees ready for bids. Architect, J. E. Sexton, Engineering Division, S. S. Kresge Co., Detroit, Mich. Lessees, S. S. Kresge Co., Detroit, Mich. Brick, steel, 2 stories, 40x100 feet, slag roof, maple and yellow pine floors.

Factory Building (add.), Twelfth and Green streets, Philadelphia. Architect taking bids due September 2nd. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owners, Edwin J. Schoettle Co., on premises. Brick work, hollow tile, concrete, structural steel, metal doors and sash, gypsum roof, Barrett specification roof, painting, glazing, hardware, electric work, plumbing.

Residence and Garage, Wayne and Mt. Airy avenues, Philadelphia. Architect taking bids due August 29th. Architect, John W. Keyes, Otis Building, Philadelphia. Owner, Lott Boardman, 327 Hausberry avenue, Philadelphia. Stone, 2½ stories and basement, 80x36

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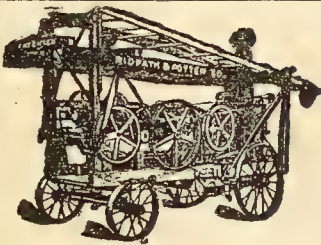
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Witherspoon Building (alts.), Juniper and Walnut streets, Philadelphia. Architect taking bids due August 29th. Architect, Stanford B. Lewis, 1713 Sansom street, Philadelphia. Owners, Presbyterian Publication Society, care of O. R. Williamson, Witherspoon Building, Philadelphia. General alterations.

Medical School, Northwest Corner Broad and Ontario streets, Philadelphia. Architect taking bids due September 9th at noon. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Temple University, Dr. C. E. Beury, President, Broad and Berks streets, Philadelphia. Reinforced concrete, brick, limestone, steel, 7 stories and basement, 187x92 feet, built-up roof, slate roof, concrete roof deck, oak and cement floors, elevators, roof ventilators, metal weather strip, architectural terra cotta, area gratings, ornamental iron, steel easement windows, iron stairs, floor hardener, bond, hollow metal, tin-clad and kalamein doors, rolled steel skylights, rolled steel and hollow metal sash, tile, marble, metal lath, dumb waiters, caulking, composition floors, excavation, hollow tile, mastic floors, incinerators, membrane and integral waterproofing, plaster bond, rolling screens, Celotex.

School Work, Philadelphia. Owners taking bids due September 3rd. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Repairs to steam drum covers, sheet metal work, pipe shields, steel lockers, tables, electric motors, electric materials, white lead, cement work, wrought iron, border light and equipment, master clock, repairs to hot air heaters, various schools and warehouse.

Residences (24), \$96,000. North side Duncannon street, West of A street, Philadelphia. Permit issued. Owner, H. Roy Whittaker, 6049 North Fifth street, Philadelphia. Brick, 2 stories, 16x37 feet, 12x16 feet, hot water heat, electric light, slag roof, pine floors.

Residences (6), \$29,000. 3208-18 Stanwood street, Philadelphia. Permit issued. Architect, private plans. Owner, Hyman Korman, Oxford avenue and Levick street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors.

Apartment House, \$16,000. Northwest Corner Frankford avenue and Princeton street, Philadelphia. Permit issued. Owner, Fred E. Rowe, 5239 Chestnut street, Philadelphia. Brick, 2 stories, 35 feet 9 inches x 80 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Residences and Stores (2), \$16,000. Frankford avenue, North of Princeton street, Philadelphia. Permit issued. Owner, Fred E. Rowe, 5239 Chestnut street, Philadelphia. Brick, 2

stories, 15x30 feet, 12x49 feet and 15x59 feet, hot water heat, electric light, hardwood and pine floors, slag roof.

Store, \$3,000. 2012 East Haines street, Philadelphia. Permit issued. Architect, E. C. Haldeman, 3438 North Twentieth street, Philadelphia. Owner, A. Leibowitz, North American Building, Philadelphia. Brick, 1 story, 29x80 feet.

Residences (9), \$37,800. West side Melvin street, North of Malvern street, Philadelphia. Permit issued. Architect, H. McCullough, 5333 Larchwood avenue, Philadelphia. Owner, Hugh C. Forbes, 5400 Diamond street, Philadelphia. Brick, 2 stories, 16x37 feet, 12x11 feet, slag roof, pine floors, central heat, electric light.

Warehouse, 818-20 Spring Garden street, Philadelphia, \$18,000. Permit issued. Owner, A. Schmerling, Twelfth and Spring Garden streets, Philadelphia. Brick, 2 stories, 30x40 feet.

Garage, \$2,000. 4515 Girard avenue, Philadelphia. Permit issued. Owners, J. B. Bruner Co., on premises. Brick, 1 story, 61x26 feet, slag roof, cement floors, electric work.

Bridges (2). Low bidders. Bridge on line of Henry avenue, over the tracks of the Reading Company, between Hunting Park avenue, Philadelphia; Francis A. Canuso & Son, 804 South Twelfth street, Philadelphia, \$499,989. Bridge on line of Welsh avenue, over Pennypack Creek; Horridge, Elcock & Hall, Real Estate Trust Building, Philadelphia, \$176,825. Grading, paving, etc., of private street (formerly Wheatshaf lane), W. J. Driscoll & John D. Acchione, 100 Apsley street, Philadelphia, \$184,577.

Supplies, Philadelphia. Owners taking bids due September 6th. Owners, Department of Public Works, 215 City Hall, Philadelphia. Electrically operated automatic police signal systems. Certified check.

Supplies, Philadelphia. Owners taking bids due September 4th at 11 A. M. Owners, Department of City Transit, City Hall Annex, Philadelphia. Furnishing and delivering Drawing Tables and Parallel Rulers. Certified check 5%.

Supplies, Philadelphia. Owners taking bids due September 5th at 11 A. M. Owners, Department of Public Works, Bureau of Water, 216 City Hall, Philadelphia. No. 961, Furnishing and delivering low pressure fire hydrants. No. 962, Stop Valves.

Supplies, Philadelphia. Owners taking bids due September 4th at 11 A. M. Owners, Department of Supplies, City Hall Annex, Philadelphia. No. 331: Wrought iron pipe line. No. 332: Ash Chute. No. 333: Rubber covered and lead encased cable. No. 334: Self-propelled engine.

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Lombard streets, Philadelphia. Preliminary plans in progress. Work contemplated. Architect, J. H. Frank, Real Estate Trust Bldg., Philadelphia. Owner, M. L. Blitzstein, on premises. Brick and stone.

Restaurant Building, 1429 Arch street, Philadelphia. Architect taking bids due September 3rd. Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia. Owners, Horn and Hardart Baking Co., 204 South Warnock street, Philadelphia. Brick, limestone, 2 stories and basement, 20x100 feet, slag roof, cement floors, hollow tile, roof ventilators, metal lath, tile, marble, rolled steel skylights, bond, ornamental iron.

Retail Store and Restaurant Building, 114-

16 South 18th Street, Philadelphia. Architect taking bids due September 3rd. Architect, Ralph Bencker, 1601 Chestnut Street, Phila. Owners, Horn & Hardart Bak. Co., 204 S. Warnock St., Phila. Brick, limestone, steel, 2 stories and basement, 35x87 feet, slag roof, cement floors, hollow tile, metal lath, tile work, rolled steel skylights, bond, ornamental iron work.

Store Building, 3112-18 Kensington Ave., Philadelphia. Plans nearly completed. Owners will be ready for bids in a week. Architect, J. E. Sexton, Engineering Division, S. S. Kresge Co., Detroit, Mich. Owners, S. S. Kresge Company, Detroit, Mich. Brick, steel, 2 stories.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Electric Car Shop, Wayne Junction, Philadelphia. Contract awarded Arey-Hauser Co., Elverson Building, Philadelphia. Engineer, Clark Dillenback, Reading Terminal, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Brick, concrete, steel, 1 story and balcony, 137x325 feet, 23x119 feet, gypsum roof, mastic floors, hollow tile, elevator, waterproofing, electric work, rolled steel sash, hollow metal doors, iron stairs, excavation.

Residence and Garage, Stenton avenue, near Militia Hill, Chestnut Hill, Pa. Contract awarded William J. Ryder, 1725 Sansom street, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Dr. Henry Jarrett, White-marsh, Pa. Stone, steel, 2½ stories and basement, 86x18 feet, wing 29x61 feet, garage 25x31 feet, shingle roof, oak, pine and cement floors, metal lath, tile, marble, bond, ornamental iron, excavation, waterproofing, brick-work, flagstone, limestone, area gratings, plastering, hardware.

Garage, West side Eighth street, North of South street, Philadelphia. Contract awarded Charles S. Bannett, 4700 Springfield avenue, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Philip Eskine, 250 South Broad street, Philadelphia. Brick, 2 stories and basement, 111x84 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash.

Sunday School, Tudor and Cresman streets, Philadelphia. Contract awarded T. C. Trafford, 2339 North Fifteenth street, Philadelphia. Architect, George E. Savage, With-

er- spoon Building, Philadelphia. Owners, May-fair United Presbyterian Church, Rev. T. Pollock, 5034 Hazel avenue, Philadelphia. Stone, 2 stories and basement, 40x70 feet, slag roof, cement and maple floors, plumbing, steam heat, oil burner, electric light.

Residence and Garage, Chestnut Hill, Philadelphia. Contract awarded Rumpf & Kohlmeyer, 3543 Germantown avenue, Philadelphia. Architect, Harry Sternfeld, 112 South Sixteenth street, Philadelphia. Owner, Mrs. C. H. Troth, care of architect. Stone, 2½ stories and basement, irregular size, slate roof, oak and yellow pine floors, tile work, bond, ornamental iron work.

Store Building, Southwest Corner Fifth and Olney avenue, Philadelphia. Contract awarded George Kessler Contracting Co., 1733 North Marvane street. Architect, private plans. Owner, Fred Felt, care of Felt Brothers, 1518 Walnut street, Philadelphia. Brick, steel, 2 stories.

Fire Stations (alts.), Engine Company No. 53, Fourth and Snyder avenue, Philadelphia. Contract awarded Francis Mack, 117 South Forty-eighth street, Philadelphia, \$10,900. Heating, Joseph W. Breen, Wyalusing and Fallon streets, Philadelphia, \$1,490. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$2,346. Electric, O. W. Lynch, 5743 Ogontz avenue, Philadelphia, \$514. Architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, City Hall Annex, Philadelphia. Demolition, cement, concrete, waterproofing, floor hardener, stone work, brick work, structural steel, iron, Barrett specification roof, wood deck skylights, metal lath, plastering,

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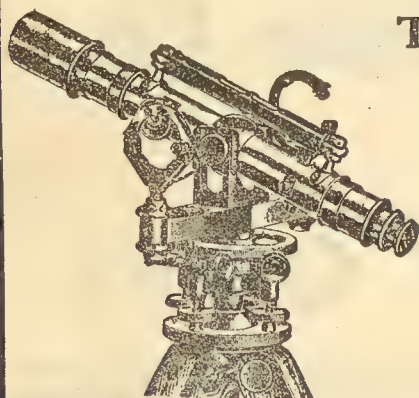
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Contract No. 19, Fifth Street Pedestrian Underpass, Delaware River Bridge, Philadelphia Approach, \$7,490. Contract awarded Lutz Construction Co., Twenty-third and Chestnut streets, Philadelphia. Owners, Delaware River Bridge Joint Commission, Joseph K. Costello, Camden, N. J. Reinforced concrete, excavation, granite, structural steel, brick, sewer.

Relaying Concrete Floors, Oregon and Delaware Avenues, Philadelphia. Contract awarded Jacob Myers & Sons Co., Fifty-first and Lancaster avenue, Philadelphia. Chief engineer, E. B. Temple, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia.

Office Building, \$90,000. 419 Walnut street, Philadelphia. Contract awarded William Steele & Sons Co., Fifteenth and Cherry streets, Philadelphia. Engineers, William Steele & Sons Co., Fifteenth and Cherry streets, Philadelphia. Owners, London Guar-

antee & Accident Co., 512 Walnut street, Philadelphia. Brick, limestone, steel, 4 stories and basement, 22x155 feet.

Residences (14), \$51,000. South side Sixty-eighth avenue and Wyncote street, Philadelphia. Contract awarded Gollub & Green, 742 Herkness street, Philadelphia. Architect, Karl F. Otto, 2240 North Broad street, Philadelphia. Owner, J. T. Stout, Real Estate Land Title Building, Philadelphia. Brick, 2 stories, 15x36 feet, 10x8 feet, hot water heat, electric light, hardwood and pine floors, slag roof.

Mill (add.), \$16,000. Southeast Corner Tulip and Foust streets, Philadelphia. Contract awarded J. D. Fotheringham, 1000 Arrott street, Philadelphia. Owner, Gustav Ruchling, on premises. Brick, 2 stories add., 50x52 feet 8 inches.

Warehouse (repairs), \$9,000. 828 North Hancock street, Philadelphia. Contract awarded A. Raymond Raff Co., 1635 Thompson street, Philadelphia. Owners, Hemmingway Company, on premises. General repairs.

Residence, \$6,000. Southeast Corner Tackawanna and Herbert streets, Philadelphia. Contract awarded J. D. Fotheringham, 1000 Arrott street, Philadelphia. Owner, Louis L. Spaulding, 4723 Tackawanna street, Philadelphia. Brick, 2 stories, 16 feet 6 inches x 50 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Laboratory Building, \$4,000. East side Richmond street, North of Kennedy street, Philadelphia. Contract awarded Rumpf & Kohlmeyer, 3543 Germantown avenue, Philadelphia. Owners, Charles Lennig Co., on premises. Brick, 1 story, 35x48 feet.

Residences (3), 300-04 Hartel street, Philadelphia. Contract awarded Betz Bros., 6915 Rising Sun avenue, Philadelphia. Architect, private plans. Owner, John Betz, 6915 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, pine floors, electric work.

Warehouse (repairs), \$6,500. 1608-10 North Twenty-first street, Philadelphia. Contract awarded J. J. Gaffney, 5532 North Third street, Philadelphia. Architect, private plans. Owners, Society of St. Vincent de Paul, on premises. General fire repairs.

Warehouse, \$5,000. 416-18 Budd street, Philadelphia. Contract awarded Leonard Will, 900 Atwood road, Philadelphia. Architect, private plans. Owner, T. N. Risser, 5004 Baltimore avenue, Philadelphia. Brick, 1 story, 29x71 feet.

Residences (4), \$3,200 each. 314-20 Sanger street, Philadelphia. Contract awarded Betz Brothers, 6915 Rising Sun avenue, Philadel-

phia. Architect, private plans. Owner, John Murz, 7912 Palmetto street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, pine floors, hot water heat, electric light.

Garage (add.), \$6,500. East side Torresdale avenue, North of Hellerman street, Philadelphia. Contract awarded A. Jastoremski, 4572 Pierce street, Philadelphia. Architect, private plans. Owner, Harry Neiman, on premises. Brick, 1 story, 8x54 feet, slag roof, cement floors, electric work.

Stable (alts.), \$5,000. Northwest Corner Allen's lane and McCallum street, Philadelphia. Contract awarded James Riley & Son, 7537 Forrest avenue, Mt. Airy. Owner, George Woodward, North American Building, Philadelphia. General alterations.

Railroad Trestle, \$4,900. Northeast Corner Twenty-fifth and Tasker streets, Philadelphia. Contract awarded Frank X. Brennan, 2507 Tasker street, Philadelphia. Architects, Barton & Martin, Wayne, Pa. Owner, Thomas F. McGowan, on premises.

Service Station, \$4,000. Southwest Corner Eightieth and Ogontz avenue, Philadelphia. Contract awarded E. C. Haldeman, 3438 North Twentieth street, Philadelphia. Architect, private plans. Owner, R. Isander, Pennsylvania Building, Philadelphia. Brick, 1 story, 17 feet 10 inches x 18 feet, slag roof, cement floors, electric work.

Residence (alts.), \$2,000. 2504 West Lehigh avenue, Philadelphia. Contract awarded F. I. Wintz, Inc., 1618 North Twenty-seventh street, Philadelphia. Architect, private plans. Owner, James J. Ryan, on premises. General alterations.

Synagogue, \$10,000. Northeast Corner Philip and Porter streets, Philadelphia. Contract awarded Max Shenkin, 105 Roseberry street, Philadelphia. Owners, Thoraka Tarnish Synagogue, on premises. Brick, 2 stories, 30x48 feet 6 inches, steam heat, electric lighting.

Offices, \$15,000. South side Ontario street, East of Janney street, Philadelphia. Contract awarded Robbins Contracting Co., 1137 North Front street, Philadelphia. Architect, J. H. Levy, 1139 North Front street, Philadelphia. Owners, Box Crane & Hoist Corporation, on premises. Brick, 2 stories, 46x54 feet.

Store (add.), \$9,000. Northwest Corner Darien and Poplar streets, Philadelphia. Contract awarded F. M. Harris & Co., 1520 Parrish street, Philadelphia. Architect, H. H. France, 1520 Parrish street, Philadelphia. Owners, Keystone Plumbing Supply Co., 927 North Ninth street, Philadelphia. Brick, 1 story add., 65x72 feet.

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Residences (alts.), (3), \$2,200 each. 2716-18-20 South Tenth street, Philadelphia. Contract awarded Shechtman Brothers, Sixth and Girard avenue, Philadelphia. Owner, Oscar Leekstein, 2716 South Tenth street, Philadelphia. General alterations.

Store and Office Building (demolition), Broad street, from South Penn Square to Chestnut street, Philadelphia. Contract awarded (but not signed) John N. Gill Construction Co., 1500 Chestnut street, Philadelphia. Architect, John T. Windrim, 1201 Chestnut street, Philadelphia. Owners, Wanamaker Estate, W. L. Nevin, Thirteenth and Market streets, Philadelphia. Demolition.

Garage (alts.), \$7,000. 1617-27 Melon street, Philadelphia. Contract awarded Farrell-Roth Construction Co., 21 South Forty-sixth street, Philadelphia. Architect, James F. Pierce, 1028 Edgemore road, Philadelphia. Owner, Jules De Hon, on premises. General alterations.

Residence (add.), \$5,000. 3417 Race street, Philadelphia. Contract awarded Edgar Wambold, Northeast Corner Thirteenth and Arch streets, Philadelphia. Architect, private plans. Owner, Julian Alexander, on premises. Brick, 3 stories add., 14 feet 6 inches x 24 feet.

Miscellaneous Road Work. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Contracts awarded. Lenape street, Conshohocken to Sorento, Parma, Lenape, etc., Montgomery Paving Co., Harrison Building, Philadelphia, \$19,239. Sixty-first street, Harley to Passyunk avenue, Philadelphia, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$19,605.

Private Sewer. Owner, Roy H. Whitaker, 6047 North Fifth street, Philadelphia. Contract awarded Roy H. Whitaker, 6047 North Fifth street, Philadelphia. North side of Duncannon street West of A street, Philadelphia.

Branch Sewers. Contracts awarded. Owners, Department of Public Works, Bureau of Engineering and Surveys, Philadelphia. Twentieth street, from Olney avenue to Belfield avenue, Philadelphia, A. Matia, 748 South Tenth street, Philadelphia, \$11,414.70. West Upsal street, from Greene street to 450 feet Northeast, A. Matia, 748 South Tenth street, Philadelphia, \$8,304.15. Intercepting sewer and appurtenant work in Magee street, from State road to 160 feet East of Milnor street, Philadelphia, Vincent Jaffolla, 1138 Arrott street, Philadelphia, \$33,280.90.

Theatres (alts.) \$25,000, 729-33 Christian Street, Philadelphia. Contract awarded A. H. Winters, 1524 Chestnut Street, Philadelphia. Architect, private plans. Owner, Feruscio A. Giannini, 228 South Forty-sixth St., Philadelphia. General alterations.

Wash Room and Greasing Pit, Stenton Avenue, Wyncote Avenue and Twenty-first St., Philadelphia. Contract awarded E. M. Wambold, Thirteenth and Arch streets, Philadelphia. Architect, private plans. Owners, Crew-Levick Co., 219 North Broad St., Philadelphia. Brick, stucco, 1 story, 25x31 feet, slag roof, metal tile roof, cement floors.

Building (alts.), American and Cambria Streets Philadelphia. Contract awarded Robert E. Lamb Co., 843 North 19th Street, Philadelphia. Engineer, F. G. Frederick, care of American Ice Company, 121 N. Broad St., Philadelphia. Owners, American Ice Co., 121 North Broad Street, Philadelphia. Excavation, brick, concrete, cement floors, iron work, plastering, carpentry, millwork, hardware, sheet metal, Barrett roof.

Factory, 232 Vine Street, Philadelphia. Contract awarded Adolph Korn, Collingdale, Pa. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owners, Schuch Machine Co., 235 New Street, Philadelphia. Brick, slow burning, 2 stories, 50x150 feet, slag roof, maple floors, steam heat, electric light, rolled steel sash.

Pennsylvania Construction News

Gymnasium, \$250,000. Opposite Demonstration School, West Chester, Pa. Architect selected. Plans to be started at once. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, West Chester State Teachers' College, West Chester, Pa. Stone, steel, brick, concrete.

High School Building, \$125,000. Lansdale, Montgomery County, Pa. Architect selected. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Lansdale School Board, Henry L. S. Ruth, President; Ira B. Harr, Secretary, Lansdale, Pa. Too early for details.

Municipal Hall, Coopersburg, Pa. Plans in progress. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Borough of Coopersburg, H. A. Ritter, Coopersburg, Pa. Brick, steel, 2 stories, 90x88 feet.

Warehouse, \$150,000. Harrisburg, Pa. Plans nearly completed. Architect, William H. Cookman, Engineer, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Brick, steel.

School Building, Aldan, Pa. Plans ready for bidders. Owners taking bids. Architect, G. Edwin Brumbaugh, Real Estate Trust Build-

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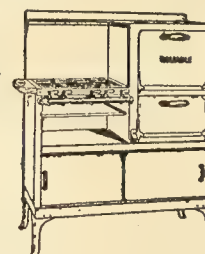
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ing, Philadelphia. Owners, Board of Education, Aldan, Delaware County, Pa.

Store and Office Building (alts. and add.), North Queen street, Lancaster, Pa. Plans about completed. Ready for bids in a few days. Architect, Sol. Kaplan, 10 South Eighth street, Philadelphia. Owner, A. Jacobs, on premises. Brick, 4 stories, general alterations and addition.

Residence and Garage, Jenkintown Manor, Pa. Plans in progress. Architect will be ready for bids in 10 days. Architect, Harold Edward Williams, Drexel Hill, Pa. Owner, A. E. Horst, 193 East Roosevelt Boulevard, Philadelphia. Brick, 2½ stories.

Home Economics Building, State College, Pa. Postponed indefinitely. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, State College, R. B. Hetzel, President, State College, Pa.

Store (alts. and add.), Bethlehem, Pa. Architects will be ready for bids in a week. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owner, Charles E. Goodenough, 534 Main street, Bethlehem, Pa. Brick, 1 story and basement, 28x75 feet, slag roof, maple floors, heating extension, electric light.

Residence, Bethlehem, Pa. Owner will build. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Anthony Vuchan, care of architect. Brick, 2½ stories, 20x42 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Service Station, North Glenside, Pa. Architect will be ready for bids in one week. Architect, Edwyn Rorke, Glenside, Pa. Owner, Al Robinson, North Glenside, Pa. Brick, 1 story, T shape, 24x60 feet, 24x50 feet, tile roof, cement and maple floors, plate glass, overhead doors, electric light, electric fan unit heat.

Store and Apartment Building, Glenside, Pa. Architect will be ready for bids in two weeks. Architect, Edwin Rorke, Glenside, Pa.

Owners, Rogers Fruit Co., Glenside, Pa. Cinder block, east stone, 2 stories and basement, 45x70 feet, slag roof, maple floors, plate glass, electric fan unit heat, electric work.

Residence and Garage, Wynnewood, Pa. Owners will build. Architect, private plans. Owners, J. Truman Swing & Co., 226 South Fifteenth street, Philadelphia. Stone and frame, 2½ stories, 30x45 feet, hardwood floors, electric light, tile work.

Residences (2), Media, Pa. A. C. Strong, 515 North Fifty-fifth street, Philadelphia, taking sub-bids. Architect, private plans. Owner, name withheld. Brick, 1½ stories, 26x44 feet, garage 10x20 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, electrical refrigeration.

Office Building, Eddystone, Pa. Architects taking bids. Architects, Simon & Simon, Fidelity-Philadelphia Building, Philadelphia. Owners, General Steel Castings Co., R. P. Lamont, President; A. F. Bladgon, Vice-President and General Superintendent, Eddystone, Pa. Brick, steel, stone, office building, 3 stories, 50x115 feet, cafeteria, 1 story, 50x175 feet, pattern and machine shops, 1 story, 90x765 feet, 192x90 feet and 50x50 feet.

Swimming Pool, Bryn Mawr, Pa. Architects taking bids due September 3rd. Architects, Collens & Allen, 75 Newbury street, Boston, Mass. Owners, Baldwin School for Girls, Bryn Mawr, Pa. Brick, steel, 1 story, irregular size, cement floors, steam heat, electric light, bond, ornamental iron.

Sunday School (alts. and add.), Bryn Mawr, Pa. Architect taking bids due August 30th before 5 P. M. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Lower Merion Baptist Church, G. Morton Walker, D. D., Bryn Mawr, Pa. Stone work, excavating, cement floors, limestone, structural steel, carpentry, mill work, iron work, slate roof, plastering, painting, glazing, plumbing, electric work, tile work, flagstone (heating reserved).

Store and Bakery Building (alts. and add.),

Jenkintown, Pa. Owner will take bids. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Henry G. Austermuhle, Jenkintown, Pa. Front addition, stone, 1 story, 33x20 feet, slag roof, tile and concrete floors, rear add., brick, 2 stories, 20x30 feet, slag roof, cement floors, heating and lighting extensions.

School Group, Hanover Township, Pa. All bids rejected. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Hanover Township School Board, H. J. Williams, 23 Ridge street, Ashley, Pa. General repairs, heating, plumbing, electrical work.

Women's Building, Broad Meadow Farms, Birmingham and Thornbury Township, Delaware County, Pa. Low bidders. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, George T. Wadees, Media, Pa. Stone, limestone, steel, 2½ stories and basement, 56x32 feet, slate roof, cement and linoleum floors, steel sash, metal lath, concrete. Hood & Gross, 1535 Chestnut street, Philadelphia, \$66,745; Richardson & Luce, 1524 Chestnut street, Philadelphia, \$66,900. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$10,333. Heating, J. H. Hutchinson, 1020 Callowhill street, Philadelphia, \$4,166. Electric, Stewart-Walters Co., 37 South Sixty-ninth street, Upper Darby, Pa., \$1,380.

Residence and Garage, Strasburg road, near Newtown Square, Pa. Low bidders: H. H. Burrell & Son, 206 South Quince street, Philadelphia. Architects, Howe & Lescaze, 414 South Nineteenth street, Philadelphia. Owner, Joseph M. R. Sinkler, Esq., care of architects. Stone, 2½ stories and basement, 75x100 feet, irregular size, tin roof.

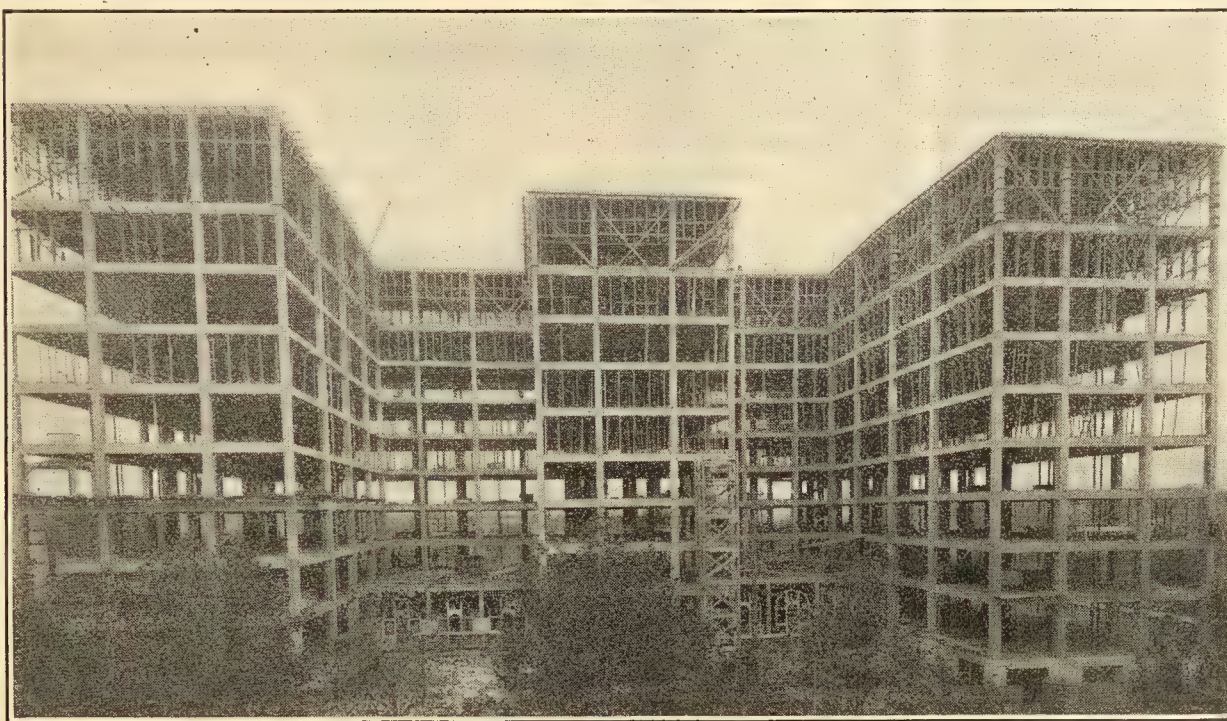
Heating and Ventilating for Gymnasium Building, Ridley Park, Pa. Owners taking bids due September 4th at 7.30 P. M. (Daylight Saving Time). Engineer, H. W. Newberg, Ridley Park, Pa. Owners, Ridley Park School Board, Mrs. H. M. Davis, Secretary, Ridley Park, Pa. Heating and ventilating. Deposit, \$5 on each set of plans (refunded). Certified check, \$300.

Surface Treatment, Penn Boulevard, Hirst and Melrose avenues, East Lansdowne, Pa. Owners taking bids due September 9th at 7 P. M. (Standard Time). Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Lansdowne (East), Edmund R. Moore, Secretary, East Lansdowne, Pa. Certified check, \$600.

Bridge No. 54 (repairs), over Jay Cooke Run, Greenwood avenue, Cheltenham Township, Pa. Owners taking bids due September 4th at 9 A. M. (Standard Time). Owners, Montgomery County Commissioners, William C. Irvin, Controller, Court House, Norristown, Pa. Certified check.

Paving, Meetinghouse road, from Second Street Pike to Fox Chase road, in Saw Mill Hill, District No. 2, Abington Township, Pa. Owners taking bids due September 5th at 7 P. M. (Standard Time). Owners, Highway Committee of Abington Township, E. R. Ambler, Secretary, York road and Horace avenue, Abington, Pa. New asphalt macadam paving. Deposit, \$10. Certified check, 2 per cent.

Grading, Draining, Combined Curb and Gutter Paving, Asphalt Macadam Road Surface, Avenue D, Ardsley, Pa.; Hillcrest avenue and Crescent avenue, Glenside Gardens, Pa.; Hamel avenue, North Glenside, Pa.; Colonial avenue, Roslyn, Pa.; Haines avenue and West avenue, McKinley, Pa.; Parkview avenue, Roychester, Pa. Owners taking bids due September 5th at 7 P. M. (Standard Time). Owners, Highway Committee of Abington Township, E. R. Ambler, Secretary, York road and Horace avenue, Abington, Pa. Deposit, \$10. Certified check, 2 per cent.



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Paving, on Swamp Pike, from Sagleysville to concrete road at New Hanover, Pa. Owners taking bids due September 11th at 9 A. M. 5—GUIDE R..E

(Standard Time). Owners, Montgomery County Commissioners, W. C. Irvin, Court House, Norristown, Pa. Approximately 10,360 feet. Certified check.

Bridge across Schlegal Creek near Sassamansville, Pa. Constructing culvert along and across Rock Creek, Cheltenham Township. Dam (alts.) across Zacharius Run, Worcester Township. Project approved. Owners, Montgomery Co. Commissioners, W. C. Irvin, Court House, Norristown, Pa.

Farm Show Building, 11th and Maclay Sts., Harrisburg, Pa. Low bidders. Architects Lawrie & Green, Odd Fellows' Bldg., Harrisburg, Pa. Owners, State of Penna., Dept. of Property and Supplies, B. E. Taylor, Harrisburg, Pa. Reinforced concrete, brick, steel, 1 story mezzanine and basement, 676x788 feet, built-up roof, wood deck, cement floors, quarry tile, metal lath, rolled steel sash, kalamein and hollow metal doors. M. A. Long Co., 10 W. Chase St., Baltimore, Md., and Commonwealth Bldg., Allentown, Pa., \$1,840,000.

Re-Paving, Essington Avenue over telephone conduit ditch. Owners taking bids due September 9th at 7 P. M. Owners, Borough of Eddystone, Walter E. Eckel, Sec., Eddystone, Pa. Certified check \$300.

Residence and Garage, \$6,000, West Chester, Pa. Plans in progress. Architect, W. J. Corcoran, West Chester, Pa. Owner, J. M. Bullock, care of Architect. Hollow tile, stucco, 2½ stories, hardwood and pine floors, hot water heat, electric light.

Church and Sunday School, West Chester, Pa. Architect taking bids due September 3rd. Architect, Ralph P. Minich, West Chester, Pa. Owners, Baptist Church, Walter L. Phillips, 635 Church St., West Chester, Pa. Brick, marble trim, 2 stories, 40x120 feet.

Culvert across Cobb's Creek, near Bryn Mawr, Pa. Project approved. Owners will soon take bids. Owners, Haverford Township Commissioners, Oakmont, Pa.

Pennsylvania Contracts Awarded

Residence and Garage. Contract awarded F. H. Wilson, Ardmore Theatre Building, Ardmore, Pa. Location, Wallingford, Pa. Architect, S. Kendrick Lichty, Secane, Pa. Owner, John P. Rife, 16 Legion Terrace, Lansdowne, Pa. Stone, frame, 2½ stories and basement, 29x53 feet, wing 26x20 feet, shingle roof, oak, pine and cement floors, hot water heat, electric light, metal lath, tile and marble, steel sash, excavation, flagstone, concrete block, linoleum, iron and steel, plumbing, hardware.

Bank, Wayne, Pa. Contract awarded Bowden Construction Co., 1607 Summer street, Philadelphia. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Wayne Title & Trust Co., L. H. Watts, President; J. H. Hallman, Secretary, Wayne, Pa. Brick, limestone, steel, 2 stories and basement, 58x83 feet, asphalt built-up roof, linoleum floors, cement floors, steam heat, electric light, oil burner, electric work, metal lath, tile, marble, rolled steel and hollow metal sash, bond, casement windows, ornamental iron, waterproofing, demolition, granite, cast stone, reinforced concrete, metal toilet partitions, hollow metal doors, skylights, caulking, hardware, iron stairs.

Residence, Garage, Stables, Tenants' House, Greenhouse, Swimming Pool, Gladwynne, Pa. Contract awarded J. S. Cornell & Son, 1528

Cherry street, Philadelphia. Architect, Edmund G. Gilchrist, 1618 Latimer street, Philadelphia. Owner, R. E. Griscom, Land Title Building, Philadelphia. Stone, steel, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, plumbing, hot water heat, electric work, metal lath, tile, bond, casement windows, ornamental iron, flagstone, waterproofing.

Community Building, Bryn Athyn, Pa. Contract awarded Synnestvedt & Leonard, Bryn Athyn, Pa. Plumbing, Slight Brothers, Jenkintown, Pa. Heating, Philadelphia Steam Heating Co., 3318 Lancaster avenue, Philadelphia. Electric, Albert Gentel, Inc., 1503 West Columbia avenue, Philadelphia. Architects, Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Owners, Bryn Athyn Community Hall, Bryn Athyn, Pa. Brick, steel, 2 stories and basement, 130x114 feet, slate roof, pine and cement floors, metal lath, bond, ornamental iron work.

Lodge Building (alts.), Somerton, Pa. Contract awarded Charles Ely, Trevoise road, Somerton, Pa. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owners, Henry A. Housman Lodge, No. 717, F. and A. M., care of I. R. McGraw, Maple and Station avenues, Somerton, Pa. Interior alterations, hot water heat, tile work, furniture, statir work, hardwood floors, plumbing fixtures, cement, changing partitions and walls, concrete fireproofing, carpentry, mill work, painting, glazing, wall finish.

Residence and Garage (alts. and add.), near Five Points, Pa. Contract awarded Fesmire Brothers, Huntingdon Valley, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Francis D. Lewis, Fidelity-Philadelphia Building, Philadelphia.

Brick, stucco, 2½ stories, 84x22 feet, marble work, metal lath, oak and pine floors, linoleum floors, plastering, painting, glazing, carpentry, mill work, hardware.

Dormitory Building (add. and alts.), Newtown Square, Pa. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Ellis College, Newtown Square, Pa. Stone, steel, 3 stories and basement, irregular size, slate roof, cement floors, steam heat, electric light, metal lath, marble work, hollow metal sash, ornamental iron, hardware, painting, glazing, sheet metal work, plastering, stone masonry, excavation, metal covered doors, mill work.

Store Building (alts. and add.), Bryn Mawr, Pa. Contract awarded H. P. Wolfe & Son, Bryn Mawr, Pa. Architect, private plans. Owner, William A. Hayden, Bryn Mawr, Pa. Brick, steel, 2 stories and basement, 60x60 feet, slag roof, pine and cement floors, hot water heat, electric light, tile work, metal lath, ornamental iron work.

Janitor's House (repairs), Leiperville School, Ridley Township, Pa. Contract awarded Isaac C. Lee, 911 Glen street, Chester, Pa. Architect, private plans. Owners, Ridley Township School, C. M. Lewis Corbin, Secretary, Fairview road, Woodlyn, Pa. General repairs.

Bank (alts.), Cornwells, Pa. Contract awarded Howard I. Leister, Croyden, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Cornwells State Bank, Cornwells, Pa. General alterations.

Residence (alts.), Hazleton, Pa. Contract awarded Eroh & Myers, Hazleton, Pa. Architect, William H. Michler, Drake Building, Easton, Pa. Owner, John Kelly, Hazleton, Pa.

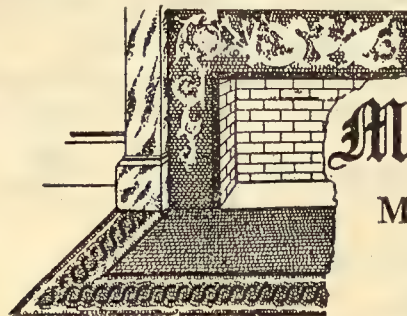
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General interior alterations, plumbing, hardwood floors, tile.

Farm Group, Hazleton, Pa. Contract awarded Shede & Kellner, Hazleton, Pa. Architect, William M. Michler, Drake Building, Easton, Pa. Owner, John Kelly, Hazleton, Pa. Frame, stucco, 1 story, 24x60 feet and 30x60 feet, slag roof, concrete floors.

Paving, Lower Chichester Township, Pa. Contract awarded Walter I. Newton, Newark, Del. Engineer, C. F. Baker, Crozer Building, Chester, Pa. Owners, Lower Chichester Township, Louis E. Pierce, Box 202, Marcus Hook, Pa.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Lancaster County, R-215, East Lampeter-Leack, Sadsbury-Paradise and Salisbury Townships. One course reinforced concrete. John H. Swanger, Lancaster, Pa., \$487,257.21.

Mercer County, R-213, Sec. 1, Perry, Fairview and Coolspring Townships, Mercer Borough. One course reinforced concrete. Grading and drainage. Burd Construction Co., Canton, Ohio, \$510,001.17.

Juniata County, R-32, Fermanagh Township. Bridge over Lost Creek. Andrew Engineering Co., Tyrone, Pa., \$45,415.36.

Berks County, R-141, Bethel Township. One course reinforced concrete, (2) concrete bridges. D. L. Risser, Lebanon, Pa., \$232,086.94.

Venango County, R-65, Rockland and Cranberry Townships. Bridge over Sandy Creek. Concrete, steel. Bartell Brothers, Curwensville, Pa., \$30,051.15.

Lawrence County, R-614-1, Hickory, Wilmington and Washington Townships. One course reinforced concrete, grading and drainage. Holmes Construction Co., Wooster, Ohio, \$137,529.50.

Montgomery County, R-198, Upper Moreland, Upper Dublin and Abington Townships. One course reinforced concrete. Union Paving Co., 123 South Twenty-first street, Philadelphia, \$68,605.20.

Allegheny County, R-108, Sec. 4, R-545, Scott, Collier and South Fayette Townships.

Jones Construction Co., Ligonier, Pa., \$191,448.84.

New Jersey Construction News

Soldiers' Home, \$500,000. To replace Kearney Soldiers' Home, Middlesex County, N. J. Work contemplated. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Cottage plan. Capacity, 250 persons.

Stables for Armory, Dumont, N. J. Plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, block, 1 story, 30x200 feet, slag roof, cement floors, steel sash.

Telephone Exchange, 5 East Morgan avenue, Palmyra, N. J. Plans in progress. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, New Jersey Bell Telephone Co., M. R. Curtis, Riverton, N. J. Brick and stone, 2 stories.

School (add.), New Sharon, Deptford Township, Gloucester County, N. J. Plans in progress. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Deptford Township School Board, A. Clinton Clement, President, Westville, N. J. Brick, 1 story and basement, 2 rooms.

Church Spire (fire repairs), Allentown, N. J. Plans in progress. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Presbyterian Church, Allentown, N. J. Frame.

Apartment House, Greenwood avenue, Trenton, N. J. Plans in progress. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, Milton Mirkin, 729 Greenwood avenue, Trenton, N. J. Brick, steel, limestone, 3 stories, 50x150 feet, slag and slate roof, wood

deck, hollow tile, casement windows, metal lath, tile and marble, electric light, oil burner, vapor heat.

Hotel, Mercerville, N. J. Plans in progress. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, Joseph Klempner, Mercerville, N. J. Brick, steel, 2 stories, 100x100 feet, slate roof, hardwood floors, dampproofing, incinerators, kitchen equipment, casement windows, tile, marble, electric light, oil burner, vapor heat.

County Jail, Mays Landing, N. J. Plans in progress. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic County Board of Chosen Freeholders, Guarantee Trust Building, Atlantic City, N. J. Too early for details.

Hotel (add.), Atlantic City, N. J. Plans in progress. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Ambassador Hotel, Brighton avenue and Boardwalk, Atlantic City, N. J. Too early for details.

Service Station, Princeton, N. J. Owners will build. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Atlantic Refining Co., C. M. Cutting, 3144 Passunk avenue, Philadelphia. Brick, stucco, 1 story add., general alterations.

Rectory, Maple Shade, N. J. Architect taking bids due August 30th. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Church of Our Lady of Perpetual Help, Maple Shade, N. J.

Service Station, \$3,000. Corner Fourth and Newton avenue, Camden, N. J. Permit issued. Architect, private plans. Owners, The American Oil Co., Sixth and Carman streets, Camden, N. J. Brick, 1 story, 12x16 feet, galvanized iron roof, gas heat, electric light, cement floors.

Church, Somerdale, Camden County, N. J. Architects taking bids due September 6th before 5 P. M. Architects, Lackey & Hettel, 544 Federal street, Camden, N. J. Owners, First Presbyterian Church, Somerdale, N. J. Cinder block, stucco, 1 story and basement, 34x80 feet, slate roof, pine floors.

Hospital, Asbury Park, N. J. Architects taking bids due September 4th at noon. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Memorial Hospital of Asbury Park, Asbury Park, N. J. Brick, limestone, steel, 4 stories and basement.

Fire House, Woodbury, N. J. Low bidders. Architect, H. M. Claisz, 225 South Sixth street, Philadelphia. Owners, City of Woodbury, Woodbury, N. J. Camden Construction Co., 515 Lawrence avenue, Camden, N. J., approximately \$14,600; J. L. Lawrence, Westville, N. J., \$14,617. Heating, S. W. Peters, Woodbury, N. J., \$4,750. Plumbing, Charles Pettibone, Woodbury, N. J., \$810. Electric, John F. Albers, Pitman, N. J., \$225.

Fetter School, Camden, N. J. Low bidders. Architect, Walter Thomas Mayo, Temple Building, Camden, N. J. Owners, Board of Education, Albert Austermyhl, 121 South Twenty-seventh street, Camden, N. J. Brick, steel, reinforced concrete, cut stone, 1 story, 80x45 feet. Costanza Brothers, 1540 Mt. Ephraim avenue, Camden, N. J., \$38,996; George Bachman, 19 North Thirtieth street, Camden, N. J., \$39,607. Heating, Harry Knecht, Collingswood, N. J., \$3,850. Plumbing, C. H. Leupold, 1466 Haddon avenue, Camden, N. J., \$2,727. Electric, Franks & Sweeney, 1073 Haddon avenue, Camden, N. J., \$1,870.

Bridge over Salem Canal, near Pennsgrove, N. J. Project approved. Plans in progress. Owners, West Jersey & Seashore Railroad, Broad Street Station, Philadelphia.

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Bridge, Barnegat City to Island Beach, N. J. Project approved. Plans in progress. Owners, State Board of Commerce and Navigation and Ocean County Board of Freeholders, care of T. E. Thropp, Trenton, N. J. Steel and concrete.

South Channel Bridge, \$40,000. Ocean County, N. J. Owners taking bids due September 3rd. Engineer, Harry C. Shinn, Toms River, N. J. Owners, Ocean County Board of Chosen Freeholders, Toms River, N. J.

Road Work, Section 3, Manahawkin-Long Beach road, Ocean County, N. J. Owners taking bids due September 3rd. Engineer, Harry C. Shinn, Toms River, N. J. Owners, Ocean County Board of Chosen Freeholders, Toms River, N. J.

Road Work, Route S-1A, Sec. 1, from Route 5 to Lemoine Avenue Extension, Bergen County, N. J. Owners taking bids due September 9th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Earth excavation, rock excavation, borrow, reinforced concrete pavement. Certified check, 10 per cent. Deposit, \$10.

Bridge, \$15,000. Seville, N. J. Owners taking bids due August 30th. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Reinforced concrete.

Bridges, Routes 5 and 6, over Grand avenue and the Northern Railroad of New Jersey, Palisades Park, Bergen County, N. J. Low bidder: A. Guthrie & Co., New York City, \$278,015.30. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Excavation, borrow, precast crib wall, concrete, reinforced steel, structural steel.

Bank Building (Sub Structure), Paulsboro, N. J. Architect taking bids due August 29th. Architect, Charles R. Peddle, 136 S. 4th St., Philadelphia. Owners, First National Bank and Trust Co., Paulsboro, N. J. Steel and concrete.

New Jersey Contracts Awarded

School, near Bridgeton, N. J., \$48,990. General contract awarded Watson & Schleinkofer, Atco, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Hopewell Township School Board, L. A. Platt, R. D. No. 3, Bridgeton, N. J. Brick, steel, 2 stories, 70x132 feet, slate roof, maple floors, bond, hollow tile, safety treads, damp-proofing. Low bidders (not yet awarded). Heating, Harry Knecht, West Collingswood, N. J., \$7,231. Plumbing, Burns, Lane & Richardson, Trenton, N. J., \$2,911. Electric, William E. Snell, 226 Elmer street, Vineland, N. J., \$1,439.

Garage Building, \$25,000. Bridgeton, N. J. Contract awarded Albert Dunlap, Jenkintown, Pa. Owners, Abbotts Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Brick, steel, fireproof, 1 story, 62x102 feet, steel sash, steel roof construction, cement floors, electric light, ornamental iron, overhead doors, insulation, painting, glazing.

Borough Hall (alts.), Pennington, N. J. Contract awarded H. Hilton, Trenton, N. J. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owners, Borough of Pennington, care of architect. Stucco, 2½ stories, 36x78 feet, slate roof, hardwood and composition floors. electric work. general alterations, overhead doors, partitions, cast stone, bluestone.

Residence, Princeton, N. J. Contract awarded E. M. Updike, Princeton, N. J. Architects, Hill & Gollner, Broad Street Bank Building,

Trenton, N. J. Owners, Mr. and Mrs. Jones, care of architects. Stone, shingle, 2½ stories, 35x82 feet, slate roof, hardwood floors, electric light, tile work.

Residence, \$4,000. 2033 South Tenth street, Camden, N. J. Contract awarded Henry Faulk, 901 Ferry avenue, Camden, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, Antonio Menedezvaz, care of builder. Brick and block, 2 stories, 16x47 feet, slag roof, hot water heat, electric light.

Buildings (6), \$26,000. Southwest Corner Haddon avenue and Old White Horse Pike, Camden, N. J. Contract awarded J. D. Hill, Collingswood, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, George D. Wetherill & Co., Inc., on premises. 1 story, 27x48 feet, 1 story, 18x20 feet, 1 story, 7x30 feet, 1 story, 60x100 feet, 2 stories, 20x40 feet, 2 stories, 36x50 feet.

Miscellaneous Construction News

Bank Building (alts. and add.), Wilmington, Del. Plans nearly completed. Architect, will be ready for bids about September 1st. Architect, Wm. E. Hauggard, 185 Madison Ave., New York City. Owners, Industrial Trust Co., 10th and Shipley Sts., Wilmington, Del. Brick, limestone, steel, 8 stories addition and stores, 32x78 feet, slag roof, concrete floors.

Bank and Office Building, Southwest Corner Ninth and Orange streets, Wilmington, Del. Plans in progress. Architects will soon take bids. Architects, Lewinson & Todaro, 150 Fifth avenue, New York City. Owners, First Fiscal Corporation, 535 Fifth avenue, New York City. Brick, steel, fireproof, 12 stories, 44x91x67 feet, black marble face brick, bronze, terra cotta partitions, terrazzo, tile, marble, quarry tile.

Residence, 605 South Clayton street, Wilmington, Del. Owner will take sub-bids. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Peter W. Newell, 200 Seventh avenue, Wilmington, Del. Brick, 2½ stories, Spanish tile and slate roof, tile work, hardwood floors, hot water heat, 25x35 feet. \$10,000.

Miscellaneous Contracts Awarded

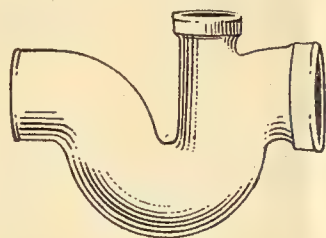
Store (alts.), 16 Lexington street, Baltimore, Md. Contract awarded Bowden Construction Co., 1607 Summer street, Philadelphia. Architect, H. Dwight Smith, 203 East Broad street, Columbus, Ohio. Owners, Nisley Shoe Co., care of architect. General alterations, plate glass, electrical work, store front, store fixtures, brass.

Bank (alts. and int. equipment), 857 Tenth avenue, New York City. Contract awarded Paul M. Sterling Co., 230 Park avenue, New York. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Guild State Bank, on premises. Changing partitions, new partitions, wood, marble and rubber tile floors, vault, etc.

AIR SEWAGE

Recent announcement that the air conditioning system in the house of representatives at Washington within three months has collected 500 pounds or a quarter ton of dust and dirt which otherwise might have been inhaled by our congressmen is one of the most potent of arguments for controlled ventilation of public schools and other types of buildings.

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told a committee of congressmen that the plant not only removes impalpable dirt particles from the air but restores it to the desired degree of heat and humidity and kills about 90 per cent. of the germs. Designers of the plant say the House chamber and galleries, if necessary, can be cooled to 50 degrees on the hottest summer day with virtually all humidity removed from the atmosphere. It is figured that each member of the house receives 30 cubic feet of cooled, dehumidified air per minute, with a similar allotment to every visitor in the galleries. Installation of the new air conditioning plant in the senate will not be completed until fall, however.

The 500 pounds of muck collected from the air by the oil coated pipes and water jets of the house air cleaning system is a pretty clear demonstration to congressmen of the menace of air sewage to public health. That there is such a thing as air sewage and that it is as repulsive as it sounds, is indicated by what the nose conveys, when an individual, fresh from out of doors, enters a crowded enclosure that has not been properly flushed out—ventilated. The most flagrant examples of such places are many public schools which are insufficiently ventilated because they depend on the spasmodic opening of windows for air change.

There are three items in the air engineer's score card which concern air sewage. These items are: Dust, bacteria, odors. They may be harmless enough in themselves. But they indicate in ventilation precisely what sewage in water intended for drinking indicates. The finding of an eastern commission on ventilation that vitiated air impairs appetite is alone sufficient evidence to indicate the menace of air sewage to health.

Air has three functions in ventilation. They are: First, its respiratory function; second, its bathing function to dissipate surplus body heat; third, its sewage destroying function, to reproduce indoors, what nature does out of doors. The third

function of air is involved in its first function, in the same way that the forces in a river operate, when sewage dumped into it by towns, has been destroyed, so that towns, lower down in the course, may draw their water supply from it, and again return their sewage to it.

But it is disease-laden air sewage—polluted from many sources—which blows in through the open window. Why thousands of children should be packed into schools and exposed to this menace through failure to provide ample mechanical ventilation, no one has attempted to explain. Public school systems in Detroit, Chicago, St. Louis and other up-to-date cities provide it. They have employed the best in modern air conditioning for their children. And they not only properly temper and humidify the air for health and comfort—but remove the sewage.

It was just a few years ago that science discovered that typhoid fever had its source in the pollution of water by sewage. Severe sanitary laws were adopted and enforced, to overcome this danger. Contamination and adulteration of food was another great cause of destructive epidemics, but this was largely eliminated. Now isn't it about time that even more aggressive steps be taken to combat the third horseman of death—air sewage?

VENTILATION REDUCES BUILDING FIRE HAZARD

Air Conditioning First Aid in Preventing and Combating Fires Experts Declare

Mechanical ventilation of buildings is the first weapon in the prevention and fighting of fires, according to the testimony of fire experts closely identified with the National Association of Fire Chiefs.

Modern skyscrapers, department stores, theatres, public schools and sport arenas with up-to-date air conditioning systems are less formidable fire hazards than other buildings without systems of positive ventilation, fire officials in leading American cities have discovered. This is true because the probability of a fire is thus reduced and if a fire does start firemen can stop it more quickly, it is pointed out. The same principle applies in reducing the danger of explosions in various types of

buildings whether due to dust or inflammable materials, firemen assert.

Chief Fred Myers, of the Toledo Fire Department, for example, declares that controlled ventilation of buildings is the best insurance against spontaneous combustion, which causes many fires, due to the fact that all parts of the building are properly "aerated" by an adequate and correctly installed mechanical system.

"To the average person, ventilating a building may appear as the wrong procedure, as it gives the fire fresh air that permits it to burn more brightly," Chief Myers said. "This is the thing to be desired as it gives the fireman a chance to enter the building and fight the fire at short range where the streams will do the most good."

Assistant Fire Chief Homer J. Jones, of the Canton Fire Department, who has made an extensive study of the subject, says the object of ventilation is twofold.

"First," he said, "it allows the smoke, heat, fumes and gases (products of combustion), which are lighter than air, to escape into the atmosphere. This prevents these elements to 'mushroom' along the ceiling, thereby causing the fire to spread through the building.

"Second, it eliminates the danger of 'backdraft' or 'hot air' explosions, due to the fact these elements are lighter than air they build up enormously at the highest point in a building and unless ventilation is provided a terrific explosion may result, with fatal results to firemen stationed in doors or at windows and with enough severity to demolish a building."

Chief Jones points out that it is the need for air and more ventilation to let out gases and fumes that firemen frequently are seen breaking windows and doors.

"A good example of the action of ventilation on fires is a bad rubbish fire in a basement," he said. "Assume there is a hood directly overhead to which is connected a damper-controlled smokepipe extending out through the roof with the damper left closed. The chances are you will have a hard fire to fight and experience a heavy loss. Open the damper and the smoke, heat and fumes are drawn up through the vent pipe, which permits speedy and effective extinguishing at close range.

"Too much emphasis cannot be placed on the importance of inspection of buildings. Each fireman should have the opportunity to inspect the places of business in this district at various times to familiarize himself with the location of stairways, elevator shafts, cellar doors, standpipes and locations of outlets on different floors, sprinkler system shutoffs and drains and their operation, outside engine connections to standpipes and sprinkler systems, stairway and elevator shaft openings onto roof and quickest way of opening same

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from outside, skylights and see if permanently fastened, see if false attic exists and see if ventilation can be provided from lower floors to roof unobstructed."

EXPERTS COOL HOME THROUGH ATTIC GABLE

Exhaust Fan Draws Out Hot Air and Reduces Temperature During Torrid Spell

One of the best ways to cool the home during the hot weather is through the attic.

By the simple installation of an exhaust ventilating fan in the gable of the attic to carry out the extremely hot air of the second and third floors, temperatures throughout the entire house can be lowered by several degrees, ventilating engineers declare. In addition to this, the cooling effect of moving air—even though slight—is noticed.

It is important, however, for those who decide to install this real advantage in the home to provide a register or "air grills" in the second floor ceiling. This will permit the air from the first and second floors to be drawn upward through the gable when the fan is operating. This system of home cooling and ventilation through the attic is simple and not costly to install.

It has the further advantage of making the attic livable for play or sleeping purposes, even during the summer months. It drives out dusts which usually accumulate in attics and stale air. A prominent ventilating expert some time ago suggested that houses should be constructed so that each would have two or more flues leading from the basement to the attic. One of these flues could be used to take the air from the attic to the cellar by means of a small fan, while the other could be utilized for taking the cold, damper air from the cellar to the attic. In this case, a fan would be needed in each flue, but the method would be particularly suitable near the se coast where the air is usually damp during the summer time.

The gable system of ventilation through the attic, with the register in the second floor ceiling, should be used, of course, in addition to an exhaust fan in the kitchen for driving out the odors and greases of the cooking stove. These odors and greases should not be allowed to enter the rest of the house which they usually do unless controlled ventilation is used in the kitchen. The greases settle on curtains, draperies and plush furniture with destructive results, as any housewife knows.

KNOTTY WOODS AGAIN COMING INTO FAVOR

Imitation is a sure sign of appreciation and it is but a short step from the

growing admiration for the oldtime rooms paneled in knotty pine, to the present day fashion which favors the skillful use of other woods containing charming variations in grain effect.

This may seem to be something of an innovation, for except in the case of the cedar chests, which are so often seen in bedrooms and halls, and are always liberally bespeckled with knots, clear wood had come to be considered essential.

But an inspection of old furniture and the interior trim in rooms of other days, reveals that this has by no means always been the case. In fact, many examples of the use of knotty wood can be found, and when skilfully done, the effects are most interesting. The present tendency to use knotty wood is, therefore, not new, but is rather a harking back to an older fashion.

Supporting and emphasizing this trend of taste are the very real advantages of conservation of wood resources and reduction of construction costs. It is this angle of the subject that is emphasized by the National Committee on Wood Utilization, which operates in connection with the Federal Department of Commerce. As this Committee points out, small, tight knots do not mean defects either in beauty or strength, and the difference in cost between clear grades and those having a few tight knots as much as 50 per cent.

This is a real item in the cost of building. For instance, the growing practice of using knotty American walnut for the portion of a floor normally covered by rugs reduces the cost, making it economical to use this exceptionally attractive and desirable flooring, whereas, if nothing but the clear grade were used, the cost would be too great. The same is true of interior trim. The grain effects in knotty

walnut are most interesting and such wood is being used for this purpose with very satisfactory results and at a cost which permits the use of this exceptionally beautiful wood, even in homes of very moderate price.

KILLING THE GOOSE*

By PETER GRIMM, President, New York Real Estate Board

Poor construction, unless it involves dishonesty, is evidenced most markedly in cheap finish rather than in structural weakness, and as such has an immediate and direct effect upon the income of the developer. This is, in a measure, its safeguard. Therefore the facts we have to consider in a discussion of poorly built buildings are: badly planned buildings; poorly supervised building jobs; badly financed jobs.

There are too many samples of buildings badly designed and buildings badly financed, and such buildings certainly have an adverse effect upon the real estate situation. We can include in this class some pretentious buildings which serve to advertise their creators or owners.

It does not require any great knowledge to differentiate between first-class, good and mediocre buildings. Every experienced real estate man can testify to their condition after, let us say, 12 to 15 years, or even much sooner in some cases. There are houses in some sections of New York which go to pieces in two or three years. Their rent-producing ability is depreciated, their condition is run-down, whereas the first class, thoroughly well-built buildings in the same localities have an entirely different aspect. It is a

*Abstract of an address before the Credit Association of the Building Trades of New York.

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simple matter to read the lesson that results from this condition. The man who has bought such a building as an investment and sees it crumbling in his hands becomes an investor dissatisfied with real estate as a form of investment, and this has an adverse effect on the real estate situation.

The tenant who has moved into such a building on a fairly long lease and suffers the inconvenience of a plumbing system that goes to pieces, windows that rattle, doors that fail to function, floors that crack and become unsightly—such a tenant becomes disgruntled and a knocker as far as the real estate fraternity is concerned.

In contrast with this, I can point to apartment houses built some 40 years ago. They were well built, honestly built, and despite the fact that they are obsolete in design and lack many improvements of modern buildings, are still high-class and desirable.

I believe it pays to build well and honestly. That seems so certain a fact and one with which we find such ready agreement that I marvel so many poor buildings are built. There is no advantage in building cheaply, and I think a cheap building is always worth less than it cost, and, in the long run, probably more.

It may be a little bit beside the point, but it seems to me that the reason so many poor buildings are built is that the builder does not know his job or is careless in the directing of it. I do not pose as a builder or one who knows the building business, nor would I pose as an automobile manufacturer or tailor; and yet I know a good suit of clothes when I see it even as I know a good car when I drive it. The analogy of the car is interesting, because, not being a thorough-

going mechanic, I used to wonder why the specifications of an expensive car read quite as well as the specifications of a cheaper one. The answer is to be found in the manner of assembling the parts and the supervision of the work. Therein, it seems to me, lies the secret in creating the good building—the synchronizing of the work of the sub-contractors and the proper supervision of their work.

Perhaps we might look into other reasons why poor buildings are built. This leads to the speculative builder. The speculative builder performs a very useful and necessary function in a community. I am satisfied that without him little pioneering would be done and many of our most useful buildings would never have been built. To stop speculative building, if indeed it were possible would be wrong, for it would mean a cessation of activity. But the fault I find with some of the speculative jobs is that their utility depends upon temporary surrounding conditions. Lot line walls are used for actual but not legal light, with the hope of permanence, but are soon closed up by contiguous development. Apartment houses and apartment hotels are built above the market demand, and such conditions certainly have an adverse effect on the real estate situation.

Professional buildings, business buildings in residential districts, co-operative apartment houses, are built without efficiency or outstanding economy or other features which will make them successful. But the speculative builder will make a mistake if he assumes that in the execution of a certain promotion scheme it is going to be possible to build a structure with the best breaks on every uncertain item. We all know that every building costs more than the promoter thinks it

will cost and the speculative builder is directed to certain failure if he relies on the hope of getting the breaks instead of relying upon certain known factors. Many a speculative builder has gone into a job improperly financed and finds himself with the situation demanding a large investment which he did not expect to be obliged to make; but the building if properly planned and properly supervised and built will succeed even though necessity requires the builder to get more cash for the undertaking.

One factor affecting the real estate situation is the attitude of the public toward real estate investment in general. The lay public is influenced adversely by reports of failures, insufficient returns, failure to pay the bond or mortgage interest. The impressions of the lay public, in cases where there are losses, are due in part to the effect of badly financed and badly organized projects.

There are properties which are offered on extremely desirable terms; in the cases of buying the fee, with little cash, or in cases of long leases you may set down as a certainty that the fact that they are so offered put them almost beyond the margin of desirability. This must be so or they would not be offered on such attractive terms.

It seems a simple matter for anyone with little experience in building financing to take such a job and have high hopes of completing such a building. But he will find that it will cost him at least 20 per cent. more than the figures showed, and his hope to finance the over-cost with paper profits, such as expected advance rents, will go a-glimmering. The net result is likely to be a loss of a large amount of money for delays in construction due to unpaid bills, excess cost of financing, lower rents due to slovenliness in the finishing items. These are the speculative jobs which mean poorly constructed buildings, and these have an adverse effect on the real estate situation far beyond our power to estimate.

The dead goose lays no eggs.—*Building Age*.

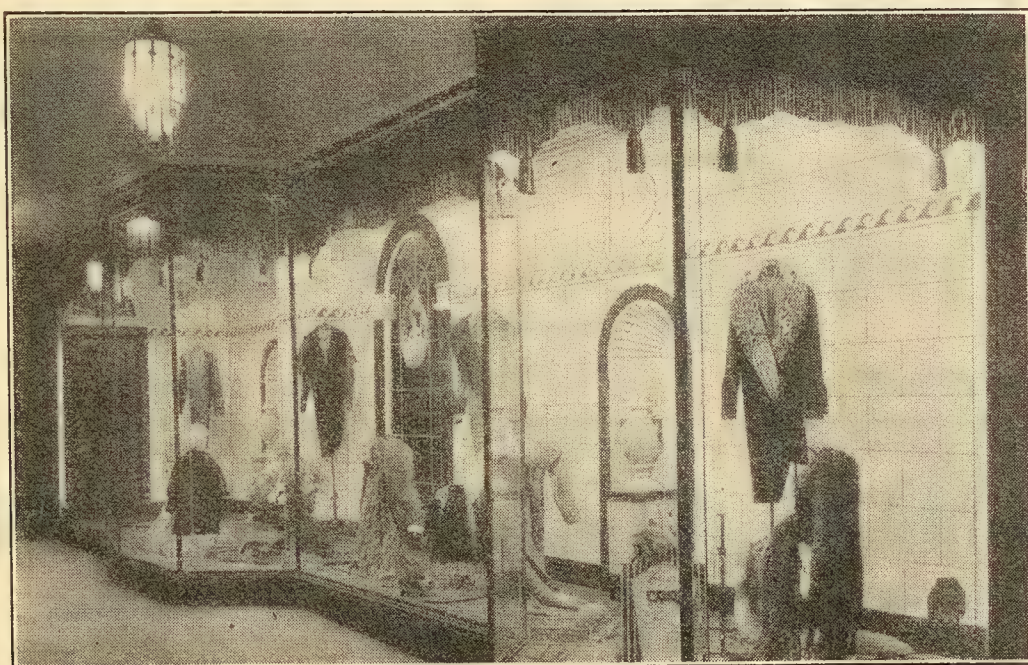
A SUGGESTION WITH REFERENCE TO BUILDING CODE REVISION

Eventually some agency of unquestioned integrity and equally recognized ability must assume the authority to supervise the writing of the building codes of the cities of America.

Until this is done there will always be laxity in their provisions which should make for safety.

Until this is done there will always be discrimination shown as between materials.

Until this is done building codes will not accomplish what they are intended to do. They will not insure the use of the best materials to the best advantage



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They will not provide the safeguards to life and health which they are expected to make mandatory.

Until this is done they will permit gross abuses of the best principles of building construction. They will continue to grant extreme privileges to those materials whose proponents happen to be politically powerful or more adroit than their competitors in manipulating legislation.

Building codes have always permitted this in the past.

They are doing it today.

And they will continue so to do until the framing of them is placed in some very definite and undisputed hands which are unfettered by material affiliation or political influence.

The big question is: Whose hands shall they be?

And just as certain as the sun will rise tomorrow morning and set again tomorrow night, this suggestion will be resented by the councilmen of every city in the country. For city councilmen are inordinately jealous of their authority, etc.

But it isn't a local question any more than is the Volstead act. Its menace is national. Building codes are not intended to favor materials. Nor to meet local conditions as a matter of policy.

They're intended primarily to insure safety and sanitation in building construction. This affects the whole people and, incidentally, investment. The problem should be handled in a broad way.

Probably the American Standards Association stands pre-eminent among the organizations having to do with construction. It is composed of delegates from all other organizations prominent in construction.

Its tasks and its accomplishments are altogether altruistic. It isn't paid for what it may do.

Possibly it might be persuaded to recommend for each state the personnel of a building code revision, this board to be authorized by legislative enactment and to be named by the governor upon the Association's recommendation. And of course to be paid by the state.

Such a board, free from political obligation, from material influence, made

up of men at the head of their individual professions, might, if any body of men might ever, be trusted to act impartially as a clearing house for all building codes of the cities of any given state. Its decisions should be final.

This may all appear idealistic, impractical, even fantastic, but something of the sort must be evolved if the grip of private, selfish interest is to be broken and the building code is to become the weapon of safety it was originally intended to be.

—*Building Economy.*

COST LESS TO PAINT THAN NOT TO PAINT

Some of us have our homes painted to make them look attractive. Some of us think that we cannot afford to. A luxury, we say—justifiable, perhaps, if any luxury is because of the recognized surroundings on home life. But still a luxury.

And so, we decide, painting must wait another season. Our budget is limited. We have an improvement to make here, a repair to make there. Thus it goes on from year to year. Little by little the house becomes run down. A change quite imperceptible in the progress, then suddenly we awake to a semi-dilapidated home, all the charm of trimness vanished.

Meanwhile we have spent money on the roof—mending a leak, of course, could not be put off. Gutter spouts, too, needed attention. Little repairs here and there seemed to run up the bills. And we come to the conclusion that an old house is as bad as an old car with its inevitable repair bills (whose size seems to progress in geometric ratio) or, if the house be comparatively new, that cheap construction may be cheap in the beginning, but it is all too costly in the end.

If you have ever reasoned this way, stop and consider. If your house is old—yes, it may be costly to run. But a house is only as old as it looks. And paint can keep it young. As for cheap construction, it is indeed false economy. But in many cases it is the owner and not the builder who is at fault. The construction may be of the best, but there is no roof which in time will not spring leaks

if its protective coating is allowed to wear away, no nail that will not rust, no siding that will not weather. When the wood is left exposed to the weather, moisture penetrates and subsequently dries out, with the resulting swelling and shrinking more quickly than those within, because they receive more moisture and dry out more rapidly. As a result, little cracks develop, making moisture penetration even easier. The surface roughens and in time the wood becomes badly weathered. Similarly, metal, if unprotected, corrodes. The roofs and gutter spouts, in need of paint, will rust and leak.

Quite aside from this physical deterioration is the depreciation of property which comes with a run-down condition. Once a house loses its touch of freshness it becomes undesirable property. The difference in price which it will bring is amazing, and the prospective seller may well consider the fact that a few hundred dollars spent for paint, inside and out, may mean the difference of a few thousand dollars in sale price.

While interiors do not weather as exteriors do, they too, are subject to a certain amount of physical depreciation if unprotected. But of greater importance, by far, is the fact that keeping a house in perfect condition is so easy if you do it regularly a little at a time.

When the woodwork begins to look soiled, give it a new coat of enamel. Troublesome redecoration is eliminated if you never allow a house to fall into poor condition. Incidentally, you enjoy at all times having your home at perfection. If, on the other hand, you allow your floors and woodwork to become cracked and chipped, paint removing will be necessary before you can again get a new finish, and three new coats—more work than in painting a place that is new.

The thrifty and wise home owner paints often, for he has learned that it costs less to paint than not to paint. Paint saves money because it is a surface protector, which prevents surface deterioration and wards off repairs, and saves money because it maintains the appearance and hence the value of your property.

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SHINGLES MAY BE USED ALSO ON THE SIDE WALLS

We can use shingles not only on the roof, but also on the side walls, thus securing a covering which is unsurpassed in texture and color by any other means. It is a logical wall surface for a wooden frame, is weather resisting, and if left without paint will weather to exquisite colors. The various woods weather in a manner distinctly their own—white cedar shingles take on a pearly gray not to be matched with paint, redwood turns a rich brown.

Our forefathers sometimes covered the walls of their houses with hand split shingles; many of them still sound after hundreds of years. And very picturesque they are. Splitting the shingles along their natural grain gave them a resistance to the weather which is not found in our modern sawed ones. Yet we may catch some of the qualities of the old hand cut shingles by laying our modern ones so that the lines of shadow made by their butt ends are wavy or broken to relieve the uniformity of machine cut shingles.

When not laid too regularly, shingles give the wall a softness of texture which neither stucco, brick nor wood siding can reproduce. They do not have the smooth, combed, horizontal lines of walls protected with siding. The vertical joints which continually counteract the importance of the horizontal courses give a more picturesque texture. Sometimes the lower edges of the shingles are laid in an irregular manner, thereby giving the house an intimate, informal appearance.

We do not need as many shingles to the square on the side walls as on the roof, for more of their length can be exposed to the weather. Seven and a half inches can be exposed on the wall as against four and a half on the roof. Properly treated with creosote, their life will be practically doubled. If we are to paint them with creosote after they are laid, however, we must be absolutely sure they are dry, otherwise this process may do actual harm. Factory dipped shingles eliminate this danger.

Today there are innumerable effects of color and texture to be achieved with creosote stains on shingles. They afford the opportunity to use rich color, and unlike paint allow the grain of the wood to show, giving a surface almost ruglike in its softness. Even the picturesque, washed out effect which old shingle walls develop when the whitewash which has been applied to them, has grown old, can be imitated with creosote stains. Like other processes of building, care must be used here to obtain the most satisfactory results.

When using color, a combination of harmonious browns; tans, reddish browns and yellow browns may be used on the same wall—likewise on roofs—by using shingles which have been dipped in these tones. This mixing of various colors is

often overdone, but when good taste is exercised many beautiful results are possible.—*East Bay Builder.*

THE INFLUENCE OF COLOR

Spring has come and gone, having told gloriously the story of color as nature paints it. On every hand it flashed brilliantly, reds and blues and yellows, and purples and pinks and lavenders against the background of living green.

And nature is being reflected more and more in the construction and the decoration of the home.

Today color is a paramount essential in every household. No room in the house is without it. It extends even into the kitchen making attractive the pots and pans. Color is no longer incidental; it is imperative.

Fashions change. Tastes differ. Fads come and go, but the love of color is permanent, persistent, instinctive. It begins in babyhood; it lasts so long as the breath of life remains. The baby reaches for the most brilliantly colored toy; the palsied hand of age lingers longest upon the fabric of brightest hue.

Color has always been one of the distinctive qualities of brick. In the earliest days of brick-making color was the subject of experiment. In the ruins of ancient Babylon and Ur have been found bricks with highly-colored glazed surfaces, made for ornamental purposes.

Today the common brick, favorite material of our great-grandfathers, offers a greater variety of color than ever before. Color that is not for a season only, but is burned-in and lasting. Color that persists so long as the wall lasts. Color that exerts a permanent appeal.

Prospective builders find much of interest in investigating the possibilities of common brick for exterior walls. Not only in the beauty of the texture of skintled brickwork, for instance, but in the matter of cost. No permanent wall costs so little as that of common brick. None is so colorful.

—*Building Economy.*

THE HIGH COST OF PRICE CUTTING

President Hoover's Economic Committee reports that business men now have a greater need than ever before for knowing their costs and their right to expect a reasonable profit. Desire to obtain a volume of business has in many cases resulted in low bidding that is a sure forerunner of failure. When a man loses his mental balance he is soon removed to a place where he can do no harm, but when he loses his business balance, everyone must suffer until the final crash removes his unfair competition. Under conditions of this sort buyers realize that extremely low prices can be secured under sufficient pressure and by playing one builder against the other, thus demoralize

the market. All confidence is then destroyed and the consideration of quality and service is dissipated. The successful contractor today must have business back-bone. He must employ modern methods of estimating, cost accounting and efficient operation. When it becomes more generally known that a ten per cent cut in prices requires fifty per cent more business to bring in the same profit, builders will not be so anxious to obtain contracts at low figures.

The trouble of the past has not been a lack of business, but a failure to maintain prices that include a legitimate profit. No successful system of outguessing competition will ever be developed. The formula to correct this price-cutting evil may be found in education, in knowing costs accurately, and in basing estimates on knowledge—not in gauging the price by hit-or-miss methods. Selfishness, personal animosities and jealousies must give way to intelligent practice. It is up to every member of the great building fraternity to realize these facts, to recognize the need for reform, and to have the courage to demand a fair return for his services.

—*Building Age.*

NEW JOBS GO TO THE "GO-GETTER"

The days of handing out new jobs on the proverbial "silver platter" are past. In fact, not only the question of who will secure the work, but also how much work will be done looks for its answer from the builder himself. It is true that builders are craftsmen, but they must be much more than that. They must be active salesmen alive to the possibilities of their field. To encourage home ownership and building in general is the duty of every man interested in the building industry. Everyone will profit.

Times have changed. Banks used to sit back haughtily and wait for depositors to come to them. But not today! They, too, must go out and sell their services to the public. They must explain what they have to offer and why it is of value. This same principle holds true in the building business. Don't wait until John Brown comes to you about a new roof. Go to John Brown and show him why it will pay him to put on a new roof! The business is there if you will go after it. And if you don't go and get it, John Brown will have a new auto, take a trip to Europe, or spend his money somewhere else. There is no disgrace in "ringing door-bells." The public has become accustomed to personal solicitation and expects that type of service. It respects aggressive salesmanship!

—*Building Age.*

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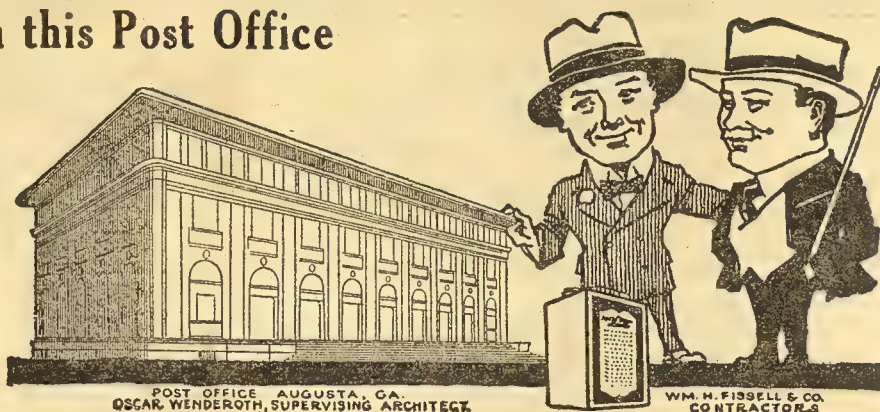
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Builders' Guide

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Issued Weekly in the Interests of Architects, Structural Engineers, Contractors
and the Material and Equipment Trades

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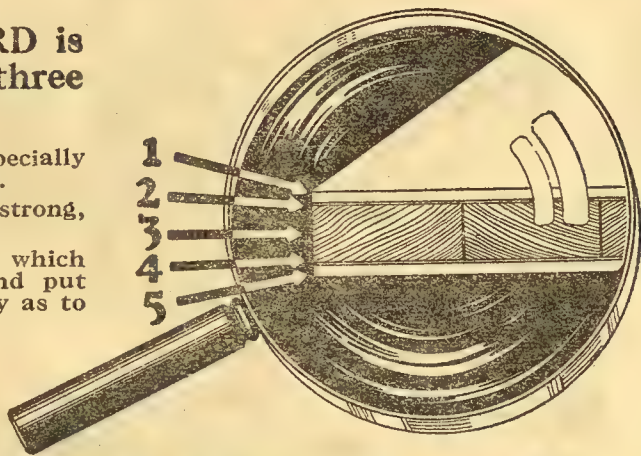
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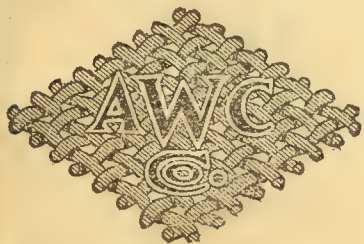
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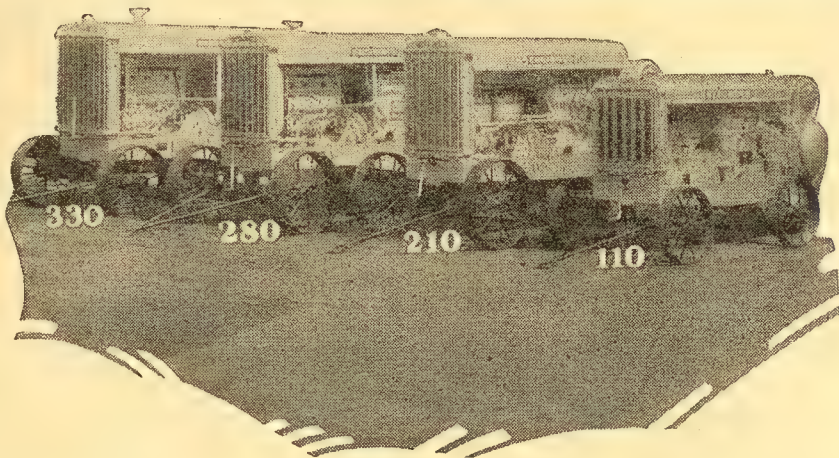
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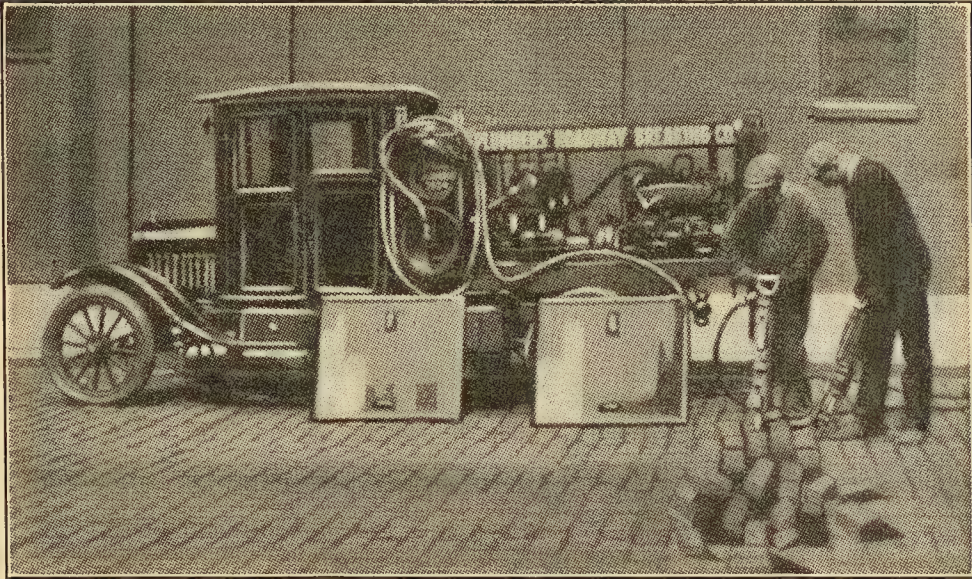
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XLIV
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PHILADELPHIA
September 4, 1929

BUILDERS' GUIDE

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store Building, Sixty-ninth and Market streets, Philadelphia. Revised plans in progress. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Kershaw & Raney, Stonehurst, Pa. Brick, cast stone, steel, 2 stories and basement, 33x63 feet.

Residence, West Cliveden street, Germantown, Philadelphia. Revised plans in progress. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Anna Lichtenstein, care of architect. Stone, 2½ stories, 30x55 feet, 13x21 feet, slate roof.

Store Building, 5223-25 Frankford avenue, Philadelphia. Owners taking bids due September 10th. Architect, J. E. Sexton, Architectural Division, S. S. Kresge Co., Detroit, Mich. Owners, S. S. Kresge Co., care of Mr. D. G. Munro, Benjamin Franklin Hotel, Philadelphia. Brick, granite, steel, 2 stories and basement, 118x40 feet, built-up roof, maple, oak and pine floors, hollow tile, plumbing, architectural terra cotta, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal sash, kalamein doors, plumbing, Kinnar doors, metal toilet partitions, hardware, painting, glazing, copper store fronts, metal ceilings.

Mill Building, East side Ridge, south of Indiana avenue, Philadelphia. Architect taking bids due September 5th. Architect, Leopold Hauf, R. N. Dippy, 1600 Walnut street, Philadelphia. Owners, Superior Knitting Mills, care of architects. Brick, steel, limestone, 2 stories and basement, 191x75 feet, slag roof, concrete floors, concrete piling, metal lath, tile and

marble work, rolled steel sash, fire doors, bond, ornamental iron work, area gratings, excavation, metal toilet partition, overhead doors, elevator.

Alterations to Second Floor of Building, Juniper and Chestnut streets, Philadelphia. Architect taking bids due as soon as possible. Architect, James S. Talley, Superintendent of Construction, 2014 Chancellor street, Philadelphia. Owners, Penfield Building, on premises. Carpentry and mill work, plastering, painting, glazing.

Bank Building (alts. and add.), Second and Chestnut streets, Philadelphia. Architect taking bids due September 11th. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Corn Exchange National Bank & Trust Co., on premises. Brick, limestone, steel, 4 stories and basement, 122x52 feet, demolition, excavation, concrete foundations, brick work, dampproofing, fireproofing, limestone, granite, iron stairs, caulking, kalamein doors, fire doors, tile roof, copper skylights, roof ventilators, painting, glazing, acoustic celotex, hardware, marble, rubber tile, terrazzo work, plumbing, electric work, elevator.

Residence, Chestnut Hill, Pa. Architect taking bids due September 9th. Architect, Edmund B. Gilchrist, Drexel Building, Philadelphia. Owner, F. Hemsley Levis, Chestnut Hill, Pa.

Store (alts.), 1627 Chestnut street, Philadelphia. Architects taking bids. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Tendler Land-

handler, Inc., on premises.

Residences (18), Comly street at Roosevelt Boulevard, Philadelphia. Owners taking sub-bids. Architect, private plans. Owners, Brinkman & Hoover, 2617 Frankford avenue, Philadelphia. Brick, 2 stories, various sizes, slag and slate roof, hardwood and pine floors, hot water heat, electric light, tile work.

Service Station, 5220-24 Haverford avenue, Philadelphia. Owners will build. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Size of lot 119x93x73 feet, irregular.

Service Station, Southeast Corner Erie and L streets, Philadelphia. Owners will build. Architect, private plans. Owner, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Brick, 1 story, tile roof.

Residences (24), on Estate of Joseph W. Hunsicker, Front and Duncannon streets, Philadelphia. Owner and builder, H. Roy Whitaker, 6403 North Fairhill street, Philadelphia. Brick, stone, 2 stories, 16x50 feet, slag and tile roof, hardwood floors, hot water heat, electric light, garage in basement, tile work.

Residences (2), \$30,000. North side Warden Drive, West of Vaux street, Philadelphia. Permit issued. Architect, private plans. Owner, J. H. McClatchey, 846 Land Title Building, Philadelphia. Brick, 3 stories, 20x38 feet, 1 story, 20x16 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (24), \$72,600. North side Loring street, East of Erdrick street, Philadelphia.

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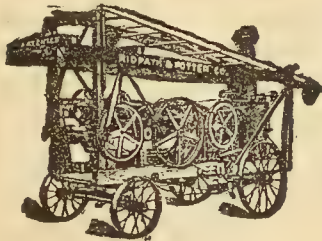
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Permit issued. Owner, Richard J. Lyons, 4516 Springfield avenue, Philadelphia. Brick, 2 stories, 16 feet 8 inches x 36 feet 6 inches, slag roof, hardwood and pine floors, hot water heat, electric light.

Pump House, \$5,000. North side Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Architect, private plans. Owners, Gulf Refining Co., on premises. Brick, 1 story, 111x23 feet.

Gas Station, \$5,000. Northeast Corner Fifty-fourth and Chester avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, 20x17 feet, 28x25 feet.

Garage, \$2,200. Northeast Corner Jasper and Westmoreland streets, Philadelphia. Permit issued. Architect, private plans. Owner, Albert Steigel, 3331 Jasper street, Philadelphia. Brick, 1 story, 16x14 feet, slag roof, cement floors.

Contract No. 226, Station Finish; No. 227, Wall Tile Finish, Broad Street Subway, Philadelphia. Owners, Department of City Transit, Thirtieth Floor, City Hall Annex, Philadelphia. Owners taking bids due September 13th, 11 A. M. (Standard Time). Deposit, \$25, refunded. Certified check, \$5,000, total of \$50,000 to \$100,000; \$7,500, \$100,000 to \$150,000; \$20,000, total \$150,000 to \$500,000.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Research Laboratory Building, Penrose and Gallows avenue, Girard Point. Contract awarded Cramp & Co., Denckla Building, Philadelphia. Architect, Edward B. Lee, Chamber of Commerce Building, Pittsburgh, Pa. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Reinforced concrete, brick, steel, steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel hollow metal sash, kalamein doors, iron stairs, ornamental iron work, architectural terra cotta, waterproofing, metal weather strip, plumbing, safety treads, hollow tile, concrete floors, slag roof, dumb waiter, vitrolite, celotex, concrete tile floors, slag roof, plastering, plaster bond, insulation, screens, cast aluminum grilles, painting, glazing, hardware, composite piles, 4 stories and basement, 112x47 feet, 1 story, 83x39 feet, 39x42 feet, 63x32 feet, 2 buildings.

Hospital Building, Tenth and Sansom streets, Philadelphia. Plans in progress. Too early for details. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Jefferson Hospital, Tenth and Sansom streets, Philadelphia. Brick, steel, 12 stories and basement.

Branch Bank (alts.), Twentieth and Passyunk avenue, Philadelphia. Contract awarded Knox Landers Co., 1132 Vine street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Sixth National Bank, Norman Ives, Second and Pine streets, Philadelphia. Brick, reinforced concrete, steel, limestone, heating alterations, electric light, metal lath, rolled steel sash, ornamental iron work, caulking, composition and cement floors, plumbing, linoleum floors, carpentry and mill work.

Bank, 2246-48 Lehigh avenue, Philadelphia. Contract awarded E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Lehigh Avenue National Bank, Dr. M. F. Sullivan, 2238 West Lehigh ave. Phila. Excavation, stone masonry, concrete and cement work, brick work, limestone,

structural steel, iron work, slag roof, plastering, carpentry, mill work, cabinet work, linoleum floors, painting, glazing, tile work, plumbing, electric work, kalamein doors, hardware, steel casement sash, steam heat.

Auto Service Building, Thirty-fourth, Shedwick, Commissioner and Indiana avenue, Philadelphia. Contract awarded Barclay White Co., 1713 Sansom street, Philadelphia. Architects, The Ballinger Co., Southeast Corner Twelfth and Chestnut streets, Philadelphia. Owners, Industrial Realty Corporation, 105 South Twelfth street, Philadelphia. Brick, concrete, 1 story, 333x180 feet (plumbing, heating, electric separate bids), slag roof, gypsum roof deck, cement floors, roof ventilators, electric light, rolled steel sash, floor hardener.

Post Office Building, Green Lane, East of Ridge avenue, Philadelphia. Contract awarded H. M. Brown, 6100 Ridge avenue, Philadelphia. Architect, I. E. Spierer, Yeadon, Pa. Owner, Samuel T. Banham, care of H. F. Brown, 6100 Ridge avenue, Philadelphia. Lessees, United States Government, Washington, D. C. Brick, cast stone, steel, 1 story, 48x75 feet, slag roof, cement and pine floors, ornamental iron work.

Hosiery Mill, A and Courtland streets, Philadelphia. Contract awarded Albert Dunlap, Jenkintown Manor, Pa. Architect, private plans. Owners, Modern Hosiery Mill, care of General Contractor. Brick, steel, 2 stories and basement, 70x50 feet, slag roof, pine and cement floors, plumbing, steam heat.

Store Building, 115 South Sixteenth street, Philadelphia. Contract awarded Roberts & Roller, 1700 Walnut street, Philadelphia. Architect, Lloyd Titus, Brighton Hotel, Atlantic City, N. J. Owner, Walter F. Off, care of F. C. Newbourg, Jr., Real Estate Trust Building, Philadelphia. Brick, limestone, steel, 2 stories and basement, 23x60 feet, slag roof, pine and cement work.

Garage, 5721 Cherry street, Philadelphia. Contract awarded Willard Swaab, Inc., 812 Crozer Building, Philadelphia. Architect, private plans. Owners, Dougherty Brothers, on

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premises. Brick, 1 story, 60x102 feet, slag roof, cement floors, steam heat, electric light, steel sash.

Tower House, \$45,000. East side Thirty-eighth street, South of Poplar street, Philadelphia. Contract awarded United Engineers & Constructors, 112 North Broad street, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Concrete, 2 stories, 27 feet 4 inches x 70 feet.

Sales Building (add.), \$8,000. 1528 Belfield avenue, Philadelphia. Contract awarded Simms & Co., 123 South Twenty-first street, Philadelphia. Architect, private plans. Owners, Philadelphia Toro, on premises. Brick, second-story add., 50x35 feet.

Residence and Store (alts.), \$4,000. Southeast Corner Eleventh and Huntingdon streets, Philadelphia. Contract awarded Harry Alterman, 2731 West Somerset street, Philadelphia. Architect, private plans. Owner, M. Sharf, on premises. General alterations.

Storage Building, \$2,500. 7015-21 Grange avenue, Philadelphia. Contract awarded A. C. Baumann, 7101 Theodore avenue, Philadelphia. Architect, private plans. Owner, Edna R. Baumann, 7101 Theodore avenue, Philadelphia. Iron, 48x110 feet.

Residence and Store (add.), \$2,000. Southwest Corner Eighth and Ritner streets, Philadelphia. Contract awarded S. Heberck, 502 North Sixth street, Philadelphia. Architect, private plans. Owner, A. Tragrash, 1115 Porter street, Philadelphia. Brick, 1 story add., 15x14 feet.

Boiler House (alts.), \$10,000. Southeast Corner Fifty-first and Viola streets, Philadelphia. Contract awarded H. M. Wilson Co., 20 South Fifteenth street, Philadelphia. Architect, private plans. Owners, Collins & Aikman, on premises. General alterations.

Residence (add.), \$5,000. 8132 Ardleigh street, Philadelphia. Contract awarded R. E. Brown, 21 North street, Philadelphia. Architect, private plans. Owner, Thomas Paleria, 8130 Ardleigh street, Philadelphia. Brick, 2 stories add., 19x28 feet, 1 story add., 19x10 feet.

Mill Building, \$16,370. South side Hegerman, East of Sanger street, Philadelphia. Contract awarded M. Gawinski, 3127 Cedar street, Phila. Architect, Sigmund J. Laschenski, 610 Harrison Building, Philadelphia. Owners, Martha Hosiery Mills, on premises. Brick, 1 story, 104x47 feet, slag roof, plumbing, steam heat, electric light.

Residence, \$11,500. Northwest Corner Overhill and Dosch streets, Philadelphia. Contract awarded D. C. Moyer & Co., Somerton, Philadelphia. Architect, private plans. Owner, Fred P. Nabenhauer, 5323 Magnolia avenue, Philadelphia. Frame, 2 stories, 60x27 feet, hardwood and pine floors, electric work.

Store, \$5,000. Northeast Corner Tenth and Cantrell streets, Philadelphia. Contract awarded Home Remodeling Co., 1517 Ellsworth street, Philadelphia. Architect, private plans. Owners, Rota Brothers, Inc., 2105 South Tenth street, Philadelphia. Brick, 2 stories, 48x29 feet, slag roof, electric lighting.

Factory (add. and alts.), \$5,000. West side Belfield avenue, South of East Penn street, Philadelphia. Contract awarded George H. Whitner, 403 East Penn street, Philadelphia. Architect, private plans. Owners, National Umbrella Frame Co., on premises. Brick, second story add., 60x18 feet, general alterations.

Residence and Garage, \$9,400. 483 Oriole street, Philadelphia. Contract awarded A. G. Wilson, Jr., 464 Flamingo street, Philadelphia. Architect, W. R. Hutt, 1467 Lardner street, Philadelphia. Owner, William Deaves, 106 Krams avenue, Philadelphia. Stone residence, 1 story, 27x40 feet, hardwood and pine floors, electric light, garage, frame, 1 story, 14x28 feet, cement work.

Apartment (alts.), \$4,000. 3634-36 Sansom street, Philadelphia. Contract awarded Louis Nathaniel, 1708 North Beechwood street, Philadelphia. Architect, H. Jefferson, 4830 Brown street, Philadelphia. Owner, James H. Irvin, 24 South Ruby street, Philadelphia. General alterations.

Garage, \$3,000. 6342 Drexel road, Philadelphia. Contract awarded Nason & Cullen, 1430 Race street, Philadelphia. Owner, John E. McCully, on premises. Brick, 1 story, 21x34 feet, cement floors, electric light.

Storage Building (add.), \$35,000. Northeast corner Thirty-first and Walnut streets, Philadelphia. Contract awarded Franklin M. Harris & Company, 1520 Parrish street, Philadelphia. Owners, Schuylkill Warehouse Company, Thirtieth and Chestnut streets, Philadelphia. Brick, second story addition, 99x180 feet.

Coal Storage Building, \$25,000. 413 North Thirteenth street, Philadelphia. Contract awarded Nicholson Company, 247 Park avenue, New York. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Concrete, 6 silos, 20 inches in diameter, 67 feet high.

Residence and Store, \$5,400. Northwest corner Ninth and Watkins streets, Philadelphia. Contract awarded Lorenzo Anastasi & Sons, 1012 Mountain street, Philadelphia. Architect, L. J. Pappas, 1240 Reed street, Philadelphia. Owner, Maria R. Muraton, 904 Morris street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, electric lighting.

Store and Residence (add.), \$2,200. 2614 West Columbia avenue, Philadelphia. Contract awarded Sol Getz, 4837 North Eleventh street, Philadelphia. Owner, M. Levinson, on premises. Brick, second story addition, 25x15 feet.

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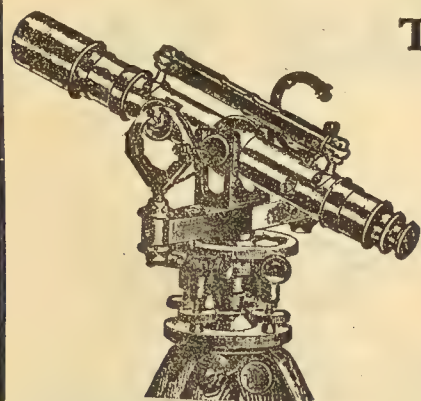
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Pennsylvania Construction News

Senior High School (add.), Brookline, Pa. Work contemplated. Architects, Boyd Abel & Gugert, Otis Building, Philadelphia. Owners, Haverford Township School Board, H. Lyons, President; T. C. Boch, High School Building, Brookline, Pa.

Church, Glenolden, Pa. Plans in progress. Architect, Charles H. Jester, Fifty-second and Walnut streets, Philadelphia. Owners, Glenolden Congregational Church, W. Gilbert Condit, Glenolden, Pa. Stone, 1 story.

Parking Garage, York, Pa. Plans in progress. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owners, Central Parking & Storage Co., J. S. Rebert, 633 West Princess street, York, Pa. Fireproof, 2 stories and basement, 130x150 feet, waterproof concrete roof, concrete floors, roof ventilators, waterproofing and dampproofing, floor hardener, fire

doors, steel sash, metal lath, electric light, unit heat.

Hospital (add.), Lewistown, Pa. Plans in progress. Architects, Witman & Royer, 36 East Market street, York, Pa. Owners, Lewistown Hospital, Thomas Zook, Chairman, Building Committee, Belleville, Pa. Brick, steel, 3 stories and basement (will accommodate 40 beds), slate roof, composition floors, linoleum floors, roof ventilators, heating extension, electric light.

Storage Building, North Souderton, Pa. Plans in progress. Work to start in spring, 1930. Architect, Jerome S. Landes, Souderton, Pa. Owners, Moyer & Son, Souderton, Pa. Steel frame, concrete, 3 stories, 40x126 feet, steel trusses, asbestos shingle roof, concrete floors, monitors, electric elevators, electric light, steel sash, fire stairs and doors.

Store and Office, Bywood avenue, Upper Darby, Pa. Plans in progress. Ready for bids in a week. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Springfield Real Estate Co., care of A. M. Taylor, Commercial Trust Building, Philadelphia. Brick, steel, cast stone, 2 stories and basement.

Junior High School, East End, York, Pa. Plans in progress. Owners will take bids in three weeks. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, Board of Education, D. N. Crider, Secretary, Central School Building, King and Cherry streets, York, Pa. Fireproof, 2 stories and basement, 145x200 feet, 50x100 feet, composition roof, maple and terrazzo floors, hollow tile, safety treads, roof ventilators, waterproofing, architectural terra cotta, bond, steel skylights, tile work, metal lath (heating, plumbing and electric separate).

Farm Show Building, Harrisburg, Pa. All bids rejected. Will readvertise. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, State of Pennsylvania, Department of Property and Supplies, B. E. Taylor, Harrisburg, Pa. Reinforced concrete, brick, steel, 1 story, built-up roof, wood deck, cement floors, quarry tile, metal lath, steel sash.

Country Club, Reading, Pa. Architect ready for bids. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading Country Club, S. Giles, Chairman, Building Committee, Philadelphia road, Reading, Pa. Stone, brick, stucco, frame, 2½ stories, 160x80 feet, slate roof, tile and maple floors, steam heat, electric light, tile, marble, steel sash, sprinkler system, kitchen equipment, septic tank, ornamental iron, brass pipe, flagstone, incinerators.

Residence and Garage, Radcliffe road,

Cynwyd, Pa. Owner will build. Architect, private plans. Owner, William F. Koelle, Jr., Cynwyd, Pa. Stone, frame, 2½ stories, 24x45 feet, 1 story, 10x20 feet, creodipt shingle roof, hardwood and cement floors, hot water heat, electric light, tile.

Ward 1 and 2, Dining Room Nos. 7, 8, 9, 10, Harrisburg, Pa. Owners will be ready for bids in one month. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Pennsylvania State Hospital, State of Pennsylvania, Harrisburg, Pa. Brick, steel, buildings 1 and 2, second floor, buildings 7 and 8, alterations, buildings 9 and 10, 1 story and basement, 300x100 feet, 85x33 feet, slate roof, linoleum floors, hollow tile, metal window guards, bond, steel sash, tile work, metal lath, electric light, heating extension.

Church and Community Hall, Maple street, Lebanon, Pa. Architects will be ready for bids this week. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owners, Presbyterian Church, care of architects. Frame, 1 story and basement, 30x41 feet, composition shingle roof, pine and maple floors, electric light.

Residence and Garage, Haverford, Pa. Ready for bids. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof, 112x28 feet.

School, Rebersburg, Miles Township, Pa. Owners taking bids due September 16th. Architects, Minich & Jamison, 23 North Third street, Harrisburg, Pa. Owners, Miles Township School Board, H. A. Meyer, Secretary, Rebersburg, Pa. Brick, 1 story, 75x35 feet, slate roof, pine floors (heating, plumbing and electrical work separate).

Hospital for Crippled Children, Elizabethtown, Pa. Owners taking bids due September 20th, 2 P. M. (Standard Time). Engineer, F. St. Clair, Jr., Department of Supplies, Harrisburg, Pa. Owners, Commonwealth of Pennsylvania, B. E. Taylor, Harrisburg, Pa. No. 1, water works, sewage and gas system; certified check, \$15,000. No. 2, elevator and dumb waiter; certified check, \$2,500. No. 3, electric feeder and accessories; certified check, \$1,000. No. 4, high and low pressure steam equipment; certified check, \$1,000.

Building (alts. and add.), for **Store and Bakery**, Jenkintown, Pa. Architect taking bids due September 9th. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Henry Auster-muhl, Jenkintown, Pa.

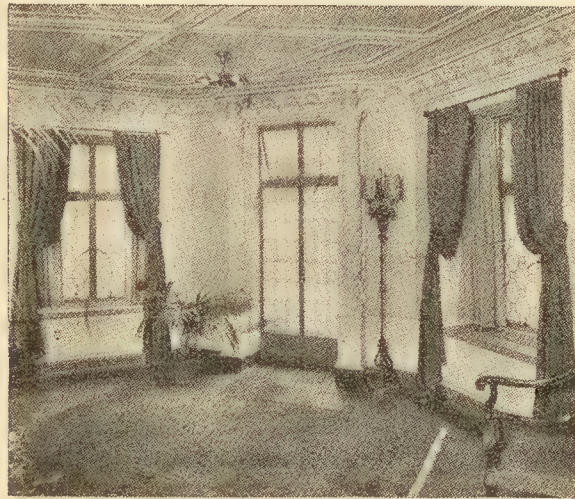
Residence, Southwest Corner Church road and Sandy Hill road, Laverock, Pa. Architects taking bids due September 11th. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, T. Bromley

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Flood, Broad and Venango streets, Philadelphia. Stone, limestone, steel, 2½ stories and basement, 88x34 feet, wing 37x28 feet (plumbing, heating, electric reserved), shingle roof, oak, pine and cement floors, hollow tile, caulking, waterproofing, flagstone, metal lath, tile and marble work, area gratings, incinerators, linoleum floors, copper roof, metal lath, stucco work, painting, glazing, hardware.

Service Station, North Glenside, Pa. Architect taking bids due September 7th. Architect, Edwyn Rorke, Glenside, Pa. Owner, Al. Robinson, North Glenside, Pa. Brick, 1 story, T shape, 24x60 feet, 24x50 feet, tile roof, cement and maple floors, plate glass, overhead doors, electric light, electric fan unit heat.

Athletic Field and Stadium, Greenwood avenue, Walnut street, West avenue and Highland avenue, Jenkintown, Pa. Owners taking bids due September 17th at 7 P. M. (Eastern Standard Time). Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Jenkintown School District, G. M. Graybill, Secretary, High School Building, West avenue, Jenkintown, Pa. Grading, track, under-drainage, sodding, seeding, erection of retaining walls and stadium. Deposit, \$25 and \$5.

High School Building, Mechanicsburg, Pa. Owners taking bids due September 10th. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Mechanicsburg School Board, G. A. Minemayer, Mechanicsburg, Pa. Brick, steel, 2 stories and basement, 137x149 feet, built-up roof, roof ventilators, linoleum, hardwood and composition floors, cast stone, brownstone, bronze, steel casement windows, tile, marble, terrazzo, metal lath.

Store and Apartment, Billiard and Bowling Alley, South Langhorne, Pa. Owners taking bids due as soon as possible. Architect, Jerome S. Landes, Souderton, Pa. Owners, Yeager & Kulp, South Langhorne, Pa. Steel, frame, brick, concrete, 1 and 2 stories, 57x135 feet, steel truss built-up roof, pine, mineral concrete floors, roof ventilators, vapor heat, electric light, tile work, steel and wood sash, copper bulks.

Hospital, Easton, Pa. Architects taking bids on revised plans due September 18th at noon. Architects, The Ballinger Co., Twelfth and Chestnut street, Philadelphia. Owners, Easton Hospital, H. Lehr, President, 1200 Butler street, Easton, Pa. Brick, reinforced concrete, steel.

Sewers and Appurtenant Work, Lloyd street, Ninth to Tenth street, Chester, Pa. Owners taking bids due September 10th, 2 P. M. (Daylight Saving Time). City engineer, Chester, Pa. Owners, City of Chester, George J. Hunter, Chester, Pa. Deposit, \$2, refunded.

Certified check, \$200. Bond, 50 per cent. 390 lineal feet 12-inch T. C. pipe, 1 manhole, 1 junction manhole, 8 12x5 Y's, 1 30 lineal feet house connection, 5-inch T. C. pipe.

Heating Plant and Piping System, \$200,000. Lansdowne, Pa. Work contemplated. Owners will build pending approval. Owners, Lansdowne Heating Corporation, care of William J. A. Gallen, 4832 Lancaster avenue.

Road Work, Pennsylvania. Owners taking bids due September 12th at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Beaver County, R-347, Sec. 2, Franklin Township, 28,125 feet. One course reinforced, (1) reinforced concrete bridge. Certified check, \$5,000.

Bucks County, R-252, Middletown, Northampton and Southampton Townships. One course reinforced concrete, 11,077 feet. Certified check, \$2,000.

Butler and Lawrence Counties, R-246, Sec. 1, Muddy Creek, Slippery Rock, Scott and Washington Townships, 42,459 feet. One course reinforced concrete, (2) reinforced concrete bridges. Certified check, \$7,000.

Elk and Clearfield Counties, R-99 Spur, R-411, A-6535, Jay and Huston Townships, 20,447 feet. One course reinforced concrete, (2) reinforced concrete bridges. Certified check, \$3,500.

Erie and Crawford Counties, R-367, A-6521, Concord and Sparta Townships, 21,459 feet. One course reinforced concrete, 347 feet grading and drainage, (2) reinforced concrete bridges. Certified check, \$3,000.

Lehigh County, R-6301, Lower Milford Township, 11,396 feet. One course reinforced concrete. Certified check, \$2,000.

Snyder County, R-195, A-5792, Perry, Franklin and Washington Townships, 43,991 feet. Grading and drainage, (2) reinforced concrete bridges. Certified check, \$2,500.

Somerset County, R-50, Sec. 8 and 9, Upper and Lower Turkeyfoot Townships, 27,473 feet. One course reinforced concrete, (1) reinforced concrete bridges. Certified check, \$4,000.

Somerset County, R-52, Sec. 6 and 7, Jenner Township, Boswell Borough, 9,657 feet. One course reinforced concrete, (3) bridges. Certified check, \$2,500.

Juniata County, R-31, Fermanagh Township, Mifflintown Borough, bridge over Moist Creek. (1) span reinforced concrete arch, filled spandrel type. Certified check, \$1,000.

Owners taking bids due September 13th at 10 A. M.

Allegheny County, R-72, Sec. 5, R-389, Shaler Township, 6,488 feet. One course reinforced concrete. Certified check, \$2,000.

Butler County, R-75, Sec. 1, A-6371, Venango, Concord and Washington Townships, 40,885 feet. One course reinforced concrete. Certified check, \$2,500.

Centre County, R-107, Sec. 4, Spring and Boggs Townships, Milesburg Borough, 8,895 feet. One course reinforced concrete, (1) reinforced concrete bridge. Certified check, \$2,000.

Indiana County, R-63 Spur, Sec. 2, A-6732, White, Rayne and Washington Townships, 20,664 feet. One course reinforced concrete,

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Indiana County, R-508, Sec. 2, Greene, East Mahoning and Rayne Townships, Marion Center Borough, 22,590 feet. One course reinforced concrete, (3) reinforced concrete bridges. Certified check, \$4,000.

Indiana County, A-5461, Montgomery Township, 6,972 feet. One course reinforced concrete, 300 feet grading and drainage, (1) reinforced concrete bridge. Certified check, \$1,500.

Lawrence County, R-315, Shenango Township, 567 feet. One course reinforced concrete, (1) reinforced concrete bridge. Certified check, \$500.

Lehigh County, A-6368, 6293, North Whitehall and Lowhill Townships, 22,094 feet. One course reinforced concrete, 54 feet grading and drainage. Certified check, \$2,500.

McKean County, R-469, Sec. 1, Keating Township, Smetport Borough, 39,083 feet. One course reinforced concrete. Certified check, \$5,000.

Mercer and Trumbull Counties, A-6220, South Pymatuning Township, Pa., and Hartford Township, Orangeville Borough, Ohio, 9,426 feet. One course reinforced concrete, (1) reinforced concrete bridge. Certified check, \$1,500.

Monroe and Pike Counties, R-167, Middle Smithfield Township, Lehman Township, 27,679 feet. One course reinforced concrete, double reinforced concrete beam bridge. Certified check, \$4,000.

Westmoreland County, R-348, Sec. 4, R-228 Spur, Bell Township, 14,496 feet. One course reinforced concrete, 950 feet grading and

drainage, (1) reinforced concrete slab bridge. Certified check, \$3,500.

Lawrence County, R-233, Scott Township, bridge over Taylor Run, (1) span, reinforced concrete. Certified check, \$1,000.

Washington County, R-545, Sec. 3-A, Cross Creek Township, bridge over South Fork of Cross Creek, (1) span reinforced concrete. Certified check, \$500.

Deposit of \$2.50 for construction drawings. Cross section drawings, 3 miles, \$7.50; 3 to 5 miles, \$10; 5 to 8 miles, \$15; over 8 miles, \$20. (No refund.)

Road Work, Pennsylvania. Low bidders (August 29th letting). Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Chester County, R-605, East Nottingham and Elk Townships. Grading and drainage. John F. Feeney, 106 Kalos street, Philadelphia, \$32,967.

Lancaster County, R-442, A-6640, Manheim and Warwick Townships. One course reinforced concrete. Graham Construction Co., Rothville, Pa., \$204,353.

Erie County, R-86, Sec. 4, Fairview Township. Bridge over Walnut Creek. Concrete and steel. Pitt Construction Co., Pittsburgh, Pa., \$103,048.

Butler County, R-246-1, Lancaster and Muddy Creek Townships, Portersville Borough. One course reinforced concrete. J. C. Devine, Meadville, Pa., \$313,024.

Crawford County, R-82, Vernon Township. Bridge over Watson Creek. Concrete and steel. John B. Schultz, Buffalo, N. Y., \$42,811.

Somerset County, R-186, Somerset and Jef-

ferson Townships. Grading and drainage. McPhee & Frere, Upper Darby, Pa., \$57,687.

Washington County, R-268, Sec. 6A, East Pike Run Township. Bridge over Pike Run. Excavation, one course reinforced concrete, steel bars, fabricated structural steel. P. A. Shaid, Canonsburg, Pa., \$15,201.

Lycoming County, A-6485, Loyalsock Township. One course reinforced concrete. A. W. Hinaman, Williamsport, Pa., \$31,860.

Northampton County, R-471, Sec. 4, Lehigh Township. One course reinforced concrete, grading and drainage. Collins & Maxwell, Inc., Easton, Pa., \$139,736.

Washington County, R-114, Sec. 1, North Franklin, Canton, Buffalo and Donegal Townships. One course reinforced concrete and (1) bridge. Donora Construction Co., Donora, Pa.

Lancaster and Berks Counties, R-518, A-5581, Brecknock Township. Grading and drainage. H. R. Miller Co., Lancaster, Pa., \$112,613.

Montgomery County, R-362, A-5543, Abington Township, Rockledge Borough. One course reinforced concrete. George I. Thompson Co., Clearfield, Pa., \$44,726.

Montour County, R-240, Sec. 1, Anthony and Derry Townships, Washingtonville Borough. One course reinforced concrete, grading and drainage. D. W. Davis & Sons, Inc., Kingston, Pa., \$279,164.

Elk County, R-99 Spur, Jay Township. One course reinforced concrete, (1) bridge. Joseph Wiesner & Son, St. Mary's, Pa., \$217,008.11.

Indiana County, R-68, Sec. R-3, White Township. One course reinforced concrete, grading and drainage, (1) bridge. M. Bennett & Sons, Indiana, Pa., \$101,147.11.

Road Work, Pennsylvania. Low bidders (August 30th letting.) Owners, Pennsylvania Department of Highways, James L. Stuart, secretary, Harrisburg, Pa.

Dauphin County, R-336, A-6641, Upper Paxton and Mifflin Townships. One course reinforced concrete (1) bridge. J. Miller Eshelman, Landisville, Pa., \$235,074.

McKean County, A-5897, Eldred Township. One course reinforced concrete, grading and drainage (3) bridges. N obids received.

Westmoreland County, Lower Burnell Township, Allegheny County, Plum Township. Bridge over Pucketa Creek, reinforced concrete. J. W. McLaughlin, Jr., Pittsburgh, Pa., \$26,964.

Mifflin Co., R-33, Granville and Oliver Townships. One course reinforced concrete. Sherman & Rhodes, West Field, Pa., \$299,792.

Westmoreland County, R-302, Sec. 11, Cook Township. Once course reinforced concrete. Matthews Bros. Construction Company, Dormont, Pa., \$194,457.

Washington County, R-545, Independence and Cross Creek Townships (1) bridge over Cross Creek. Reinforced concrete, cement pavement. H. E. Armstrong, Lisbon, Ohio, \$14,848.

Clearfield County, R-402, Sec. 1, Sandy and Hustown Townships. One course reinforced concrete (5) concrete bridges. Chas. H. Fry Construction Company, Erie, Pa., \$341,778.

Franklin County, R-588, Washington and Quincy Townships. Bituminous surface treated macadam surface course (3) bridges. Diehl, Henneberger & Wishard, Green Castle, Pa., \$128,297.

Clarion County, R-66, A-6209, R-533, New Bethlehem Borough. One course reinforced concrete. State Construction Company, New Kensington, Pa., \$42,671.

Potter County, R-236, Sec. 1, Sharon Township. One course reinforced concrete. Max E. Butler, Duke Centre, Pa., \$109,343.

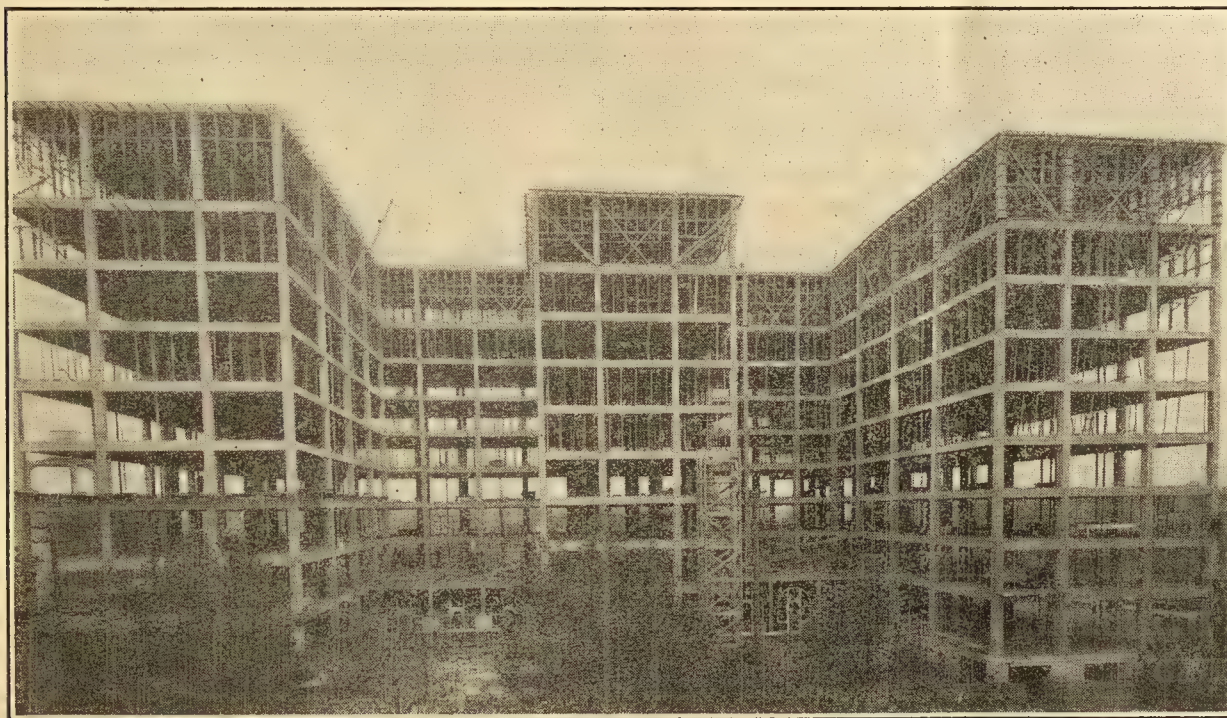
Crawford County, Richmond Township, Route 200. Bridge over Woodcock Creek. Reinforced concrete. Walter S. Rae, Pittsburgh, Pa., \$37,407.

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Delaware County, R-225, Spur A. Spur B, Marple Township. One course reinforced concrete. Dalton Bros., Paoli, Pa. \$44,258.

Greene County, R-111, Sec. 6, Sec. 7A, Centre and Franklin Townships. One course reinforced concrete (3) bridges. (2) pony truss bridges. Tri-State Engineering Company, Cumberland, Md. \$416,522.

Berks County, R-149, West Reading Borough. One course reinforced concrete. W. R. Wolfinger, Norristown, Pa. \$64,209.

Sullivan County, R-19, R-321, Sec. 2, Eaglesmere Borough, Shrewsbury and Davidson Townships. One course reinforced concrete (2) concrete bridges. A. W. Hinaman Construction Co., Williamsport, Pa. \$453,226.

York County, R-332, Sec. B. Lower Windsor and Chanceford Townships. Bituminous surface treated macadam surface road (1) concrete bridge. Richard Hopkins Company, Albany, N. Y. \$158,415.

Store Building, Glenside, Pa. Architect taking bids due September 14th. Architect, Edwin G. Rorke, Glenside, Pa. Owner, Rodgers Fruit Company, Glenside, Pa. Brick, steel, caststone, 2 stories and basement.

Residence, Merion, Pa. Architect taking bids due September 9th. Architect, J. D. Wooley, 1935 Chestnut street, Philadelphia. Owner, John S. Wynn, Merion, Pa. Stone, steel, 2½ stories and basement, 43x33 feet. Garage 23x21 feet, tile, shingle roof, oak, pine and cement floors, hot water heat, electric light, tile work, ornamental iron work.

Lime and Seeds, Royersford, Pa. Owner taking bids due September 5th, 9 A. M. (D. S. T.) Owner, Montgomery County Poor District, E. A. Nelson, R. D. No. 1, Royersford, Pa.

Playground Repairs and Surfacing, Lincoln School, Norristown, Pa. Owner taking bids due September 20th, 4 P. M. Certified check \$200. Owner, Board of Directors of School District of Norristown, Pa. H. R. Kratz, secretary, Norristown, Pa.

Pennsylvania Contracts Awarded

Residence (alts.), 8227 Westminster avenue, Elkins Park, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owner, Jeffrey A. Stone, on premises. Plastering, carpentry, millwork, tile work, painting, iron work, plumbing, hardware.

Laundry, Coatesville, Pa. Contract awarded W. K. Thorn, Coatesville, Pa. Engineers, Jeffries & Weiler, 322 West Market street, West Chester, Pa. Owner, New Idea Laundry Co., 61 Woodland avenue, Coatesville, Pa. Steel, concrete, glass, one story, 55x103 feet, steel roof, concrete floors, rolled steel sash, fire doors, electric light, steam heat.

School, Pocono Lake, Monroe County, Pa. Contract awarded Dommermuth & Co., Pittston, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Tobyhanna Township, care of Daniel F. Stearner, Blakesly, Pa. Stone, brick, cement block, 1 story, 115x56 feet, 53x64 feet, 49x55 feet, slate, slag roof, cement and linoleum floors, safety treads, wire work, slate work, soundproofing (electric work and fixtures, heating, ventilating, plumbing, finished grading, showers, stalls and partitions reserved).

Sunday School, Fourth and Main streets, Darby, Pa. Contract awarded Taggart & Thompson, 2814 North Broad street, Philadelphia. Architects, Druckenmiller & Williams, Otis Bldg., Phila. Owners, Darby Presbyterian Church, E. Safford, Colwyn, Pa. Stone, brick, 2 stories, 40x90 feet, slate roof, wood and ce-

ment floors, plumbing, electric light, kitchen equipment.

Manufacturing Building, near Easton, Pa. Contract awarded R. T. & C. D. Stewart, Easton, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Individual Drinking Cup Company, near Easton, Pa. Brick, steel, 3 stories, 80x100 feet, slag roof, cement floors, steam heat.

Residence and Garage, Bluebell, Pa. Contract awarded E. R. Hall, 34 South Seventeenth street, Philadelphia. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Marmaduke Tilden, Jr., 1520 Locust street, Philadelphia. Stone, steel, 2½ stories and basement, 112x41 feet, wing 37x22 feet, shingle roof, oak and pine, cement floors, mastic floors, plumbing, hot water heat, electric light, metal lath, tile and marble work, bond, ornamental iron work, brass pipe, wrought iron pipe, caulking.

Garage and Bowling Alley, \$100,000. Markley street, Norristown, Pa. Contract awarded H. C. Shallcross, Gratersford, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owners, Simon Brothers and Howard Rickle, Norristown, Pa. Brick, steel, 1 story, 53x160 feet, slag roof, cement floors, electric.

Residence and Garage, Gettysburg, Pa. Contract awarded Luther I. Sachs, Gettysburg, Pa. Architect, Edward Leber, 42 West Market street, York, Pa. Owner, Dr. J. McCrea Dickson, 103 West Middle street, Gettysburg, Pa. Stone, 2½ stories, 35x60 feet, 20x28 feet, slate roof, hardwood floors, flagstone, brass pipe, tile work, electric light.

Alterations, Northwest Corner West avenue and Johnson street, Jenkintown, Pa. Contract awarded W. P. Krewson, Elkins Park, Pa., not signed. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, LeRoy Ash, on premises.

Brick, excavation, concrete, iron work, carpentry and mill work, painting, glazing, slag roof, metal lath, plumbing, heating, plastering.

Building (add.), Chester, Pa. Contract awarded M. Chester Campbell, Ridley Park, Pa. Owners, Chester Auto Parts Co., J. E. Brandt, Crum Lynn, Pa. Architect, private plans. Brick, steel, 1 story, 70x170 feet, slag roof, cement floors, rolled steel sash.

Residence, Old Forrest road, Carroll Park, Pa. Contract awarded John E. Kearney, Wynnewood, Pa. Architects, Boyd, Abel & Gurgert, Otis Building, Philadelphia. Owner, Dr. M. K. Meine, Coronado Apartments, Philadelphia. Brick, 2½ stories, hardwood floors, electric light, tile work.

Wading Pool, West Eighth street, Conshohocken, Pa. Contract awarded Roy Nestor, Conshohocken, Pa. Owners, Borough of Conshohocken, Harvey D. Herbert, Conshohocken, Pa. Concrete, 25x40 feet, 6 inches to 30 feet deep.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Cambria County, A-5538, Stonycreek Township. One course reinforced concrete. D. R. Davis, Johnstown, Pa., \$34,730.99.

Armstrong County, R-71, Sec. 2, Worthington Borough, West Franklin Township. One course reinforced concrete. Rinehart Brothers, East Liverpool, Ohio, \$30,483.90.

Washington County, A-5763, Robinson Township. One course reinforced concrete. A. G. Rothe, Elizabeth, Pa., \$107,545.54.

Perry County, R-293, Greenwood Township, bridge, concrete, steel, (2) spans, over Cocolamus Creek. Martin & Frownfelder, Camp Hill, Pa., \$21,892.17.

Greene County, R-112, Sec. 4A, Cumberland Township. Bridge over Muldy Run. Rein-

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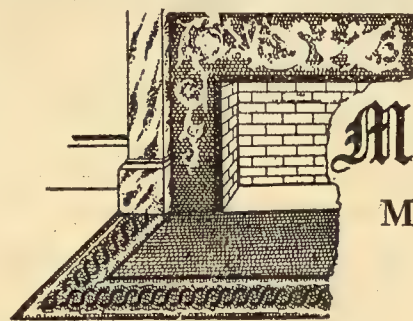
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forced concrete and steel. Lippincott Brothers, Waynesboro, Pa., \$13,503.01.

Mercer County, A-6220, South Pymatuning Township, Pa. Reinforced concrete slab bridge. Young & Kleisecker, Youngstown, Ohio, \$35,570.71.

Bedford County, R-222, Sec. 4, Bedford, East St. Clair and West St. Clair Townships. One course reinforced concrete, (5) bridges. Corrado & Galliardi, Connellsville, Pa., \$468,041.38.

Greene County, R-451, Sec. 1, Jefferson Township. Reinforced concrete bridge. Alfred De Polo, Connellsville, Pa., \$12,707.44.

Lehigh County, R-555, Whitehall Township. One course reinforced concrete, (1) bridge. General Paving Co., Allentown, Pa., \$152,379.69.

Cambria County, A-5801, 5535, Lorain Bor-

ough, Stonycreek Township. One course reinforced concrete. A. R. Cooper, Idamar, Pa., \$57,585.90.

Washington County, R-118, Sec. 3, A-5911, Somerset and West Bethlehem Townships, Ellsworth and Cokeburg Boroughs. One course reinforced concrete, grading and drainage. Dorsey Construction Co., Findlay, O., \$323,203.40.

Somerset County, R-52, Spur, Sec. R-2, A-6423, 5147, Benson Borough, Paint Township. One course reinforced concrete, grading and drainage. A. R. Cooper, Idamar, Pa., \$91,070.50.

Erie County, R-85, Conneaut Township. Bridge over Conneaut Creek. W. S. Meserve, Buffalo, N. Y., \$49,326.21.

Indiana County, A-6284, West Wheatfield Township. One course reinforced concrete. Eastern States Construction Co., Meadville, Pa., \$123,747.48.

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New Jersey

Construction News

City Hall, Atlantic City, N. J. Work contemplated. Owners, City of Atlantic City, care of Mayor Ruffu, City Hall, Atlantic and Tennessee avenues, Atlantic City, N. J.

Municipal Airport, Bridgeton, N. J. Work contemplated. Owners, care of Bridgeton Chamber of Commerce, Stanton Johnson, Chairman Aviation, Bridgeton, N. J.

Residence, Brighton Shore, N. J. Plans in progress. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, Miss Penrose, care of architect. Frame, 2 stories, 40x50 feet, shingle roof, pine floors, celotex, electric light.

Garage, Trenton, N. J. Revised plans in progress. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owner, Christopher Carlidge, 920 Berkley street, Trenton, N. J. Brick, 1 story, 32x22 feet, slate roof, concrete floors, electric light.

Club House, Cooper and Baird and Bridge Boulevard, Camden, N. J. Owners taking bids due as soon as possible. Architects, Lackey & Hettel, 544 Federal street, Camden, N. J., and Paul Cret, Otis Building, Philadelphia. Owners, City Athletic Club, P. H. Harding, Camden, N. J. Reinforced concrete, brick, limestone, steel, 8 stories and basement, 302x75 feet, concrete floors, steam heat, electric light, metal lath, tile, marble, terrazzo work, rolled steel skylights, iron stairs, ornamental iron work, area gratings, architectural terra cotta, excavation, bond, concrete structural roof slab, wood roof decks, wood piles, monolithic finish, waterproofing, flagstone, celotex, Barrett specification roof, steel case-

ment sash, steel casement doors, hollow metal doors, alberne stone, mosaic work, duraflex mastic floors, linoleum, oak and pine floors, rolling screens.

Hotel Iroquois, South Carolina avenue, near Beach street, Atlantic City, N. J. Architect taking bids due September 7th. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owner, Dr. Ludy, care of architect. Brick, steel, 15 stories and basement, 82x140 feet, slag roof, concrete and composition, maple floors, hollow tile, safety treads, roof ventilators, waterproofing and damp-proofing, cast stone, metal lath, tile and marble work, fire doors, bond, ornamental iron work, bronze work.

School, McKee City, N. J. Owners taking bids due September 5th at 8 P. M. (Daylight Saving Time). Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education of Egg Harbor Township, James B. Brown, District Clerk, Bargaintown Hall, Bargaintown, N. J. Certified check. Surety bond.

Stable, Camden, N. J. Owners taking bids due September 5th. Architect, private plans. Owners, Abbotts Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Brick, steel, 1 story and basement.

Service Station, Massachusetts avenue and Beach, Atlantic City, N. J. Owners will build. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia.

Service Station, Northeast Corner Atlantic and Windsor avenues, Atlantic City, N. J. Owners will build. Architect, private plans. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Tile, stucco, size of lot 55x75 feet, tile roof, cement floors, grading, electric light.

Store (1), Residences (3), \$17,000. 1301-03-07-09 Decatur street, Camden, N. J. Permit issued. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Carmelo Oliveri, 100 East Holly avenue, Oaklyn, N. J. Brick, 2 stories, 20x60 feet and 15x46 feet, slag roof, hot water heat, electric light.

Service Building, New Jersey State Hospital for Insane, Greystone Park, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, limestone, granite, 1 story and basement, 80x36 feet, slate roof, cement floors, caulking, waterproofing, cast stone, alberne stone, rubber stone floors, casement windows, ornamental iron, bond, tile, marble, metal lath. Nora & Nora Construction Co., New Brunswick, N. J., \$33,500; Macchi & Company, Somerville, N. J., \$36,000. Plumbing, Burns,

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Lane & Richardson, New Brunswick, N. J., \$4,556. Heating, Burns, Lane & Richardson, New Brunswick, N. J., \$2,070. Electric, K. W. Electric Co., Newark, N. J., \$2,350.

Bridge Substructure, Route 6, Sec. 1, across Hackensack River at Little Ferry, Bergen County, N. J. Owners taking bids due September 16th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation excavation, concrete, timber foundation, stone facing, reinforcing steel, creosoted piles. Certified check, 10 per cent. Deposit, \$10.

Road Work, Route 8, Sec. 2, Yellow Frame to Fedon road, Sussex County, N. J. Owners taking bids due September 16th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Unclassified excavation, reinforced concrete pavement, improved shoulders. Certified check, 10 per cent. Deposit, \$10.

Borings, Route 25, Contract 28, from Broadway, Jersey City, to Lincoln Highway, Newark, Hudson and Essex Counties, N. J. Owners taking bids due September 16th at noon (Daylight Saving Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Casing sunk to rock, diamond drill core borings. Certified check, 10 per cent. Deposit, \$10.

Bridges (3), Route 44, Sec. 5, over Repaupo Creek, White Sluice Race and Sand Ditch, Gloucester County, N. J. Low bidders: Charles S. Moses, Edgewater Park, N. J., \$41,820. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Excavation, concrete, reinforcing steel, timber piling.

Service Station, Fourth and Newton avenue, Camden, N. J. Owner taking bids due September 5th. Engineer, T. J. O'Connell, American Building, Baltimore, Md. Owner, American Oil Company, American Building, Baltimore, Md. Brick, steel, 1 story, 16x12 feet, Spanish tile roof, cement floors, plumbing, waterproofing, gas steam heat, electric light, metal lath.

Service Station, Crown Point road and Gateway boulevard, Westville, N. J. Owner will build. Architect, private plans. Owner, Gulf Refining Company, Sydenham and Locust streets, Philadelphia. Cement work, tile work, electric work.

Concrete Sidewalks Street Paving, Pensauken, N. J. Owner taking bids due September 9th, 8.30 P. M. (D. S. T.) Owner, Township of Pensauken, R. V. Peabody, Pensauken, N. J. Engineers, Remington, Vosbury & Goff, Camden, N. J. Approximately 50,000 square feet 4 inch concrete walks; 250 square yards 8 inch reinforced concrete paving, necessary grading. Deposit \$15; refund \$5; bond 10 per cent certified check. 11,495 square yards 7 inch reinforced concrete paving; 200 square yards 6 inch concrete gutters, 2,255 cubic yards excavation; 2,695 lineal feet plain concrete curb; 315 lineal feet armoured radial curb; 500 lineal feet curb removal; 500 square feet 4 inch concrete sidewalk; 1 inlet. Deposit \$20; refund \$10; certified check and bond 10 per cent. 6,345 cubic yards 7 inch reinforced paving; 1,492 cubic yards excavation; 3,605 lineal feet straight concrete curb; 215 lineal feet armoured radial curb; 300 lineal feet curb and gutter removal; 100 square yards 6 inch concrete curb. Deposit \$20; refund \$10; certified check and bond 10 per cent.

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New Jersey Contracts Awarded

Dormitory Building No. 3, \$41,846. Colony for Feeble Minded, New Lisbon, N. J. Contract awarded Richardson & Luce, 1524 Chestnut street, Philadelphia. Plumbing, Burns, Lane & Richardson, Trenton, N. J., \$4,749. Heating, Burns, Lane & Richardson, Trenton, N. J., \$3,857. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Brick, cast stone, 2 stories and basement, 45x45 feet, wing 33x25 feet, 38x19 feet, asbestos shingle roof, oak and pine floors, bluestone, stucco, ornamental iron, tile, metal lath.

Fetter School, Third street, between Walnut and Mt. Vernon street, Camden, N. J. Contract awarded Costanzo Brothers, Camden, N. J., \$38,996. Heating, Harry Knecht, Collingswood, N. J., \$3,850. Plumbing, C. H. Leupold, 1466 Haddon avenue, Camden, N. J., \$2,727. Electric, Franks & Sweeney, 1073 Haddon avenue, Camden, N. J., \$1,870. Architect, Walter Thomas Mayo, Camden, N. J. Owners, Board of Education, Albert Auster-muhl, 121 South Twenty-seventh street, Camden, N. J. Brick, steel, reinforced concrete, 1 story, 80x45 feet, cut stone.

Telephone Building, Ocean City, N. J. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company, Nineteenth and Arch streets, Philadelphia. Brick, steel, 2 stories and basement, steam heat, electric light, metal lath, rolled steel sash, ornamental iron work, slag roof, cement floors.

Hotel Flanders (alts. and add.), Atlantic City, N. J. Contract awarded P. G. Hannum, Georgia avenue and Thoroughfare, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, J. Yon, Hotel Flanders, Atlantic City, N. J. Brick, steel, 6 stories, 70x60 feet, concrete roof, maple floors, 2 elevators, safety treads, waterproofing and dampproofing, electric light, tile, marble, steel sash.

Church, Sunday School and Fellowship Building, Hightstown, N. J. Contract awarded Willis Hancock, Hightstown, N. J. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, First Presbyterian Church, Rev. Tyack, Hightstown, N. J. Will contain kitchen, dressing rooms, etc.

Hotel, \$2,250,000. Park Place, Atlantic City, N. J. Contract awarded Roberts & Roller, 1700

Walnut street, Philadelphia. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owners, Sealands Corporation, care of architect. Limestone, brick, steel, concrete, fire-proof, 24 stories, 138x200 feet, steam heat, electric light, tile and marble work, elevators.

Coal Silos (4), \$13,000. Southeast Corner Seventh and Pine streets, Camden, N. J. Contract awarded L. H. Blouch & Co., Drexel Building, Philadelphia. Architect, private plans. Owner, C. P. Mohrfeld, Seventh and Pine streets, Camden, N. J. Concrete, 16x40 feet.

Bridges (2), \$278,015.30. Routes 5 and 6, over Grand avenue and Northern Railroad of New Jersey, Palisades Park, Bergen County, N. J. Contract awarded A. Guthrie & Co., 10 East Fortieth street, New York. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Excavation, borrow, pre-cast crib wall, concrete, reinforcing steel, structural steel.

Bridge over Channel, Lake Louise, near Broadway, Point Pleasant, N. J., \$12,000. Contract awarded Fred McDowell, Asbury Park, N. J. Architect, private plans. Owners, Board of Freeholders, Ocean County, Toms River, N. J.

Miscellaneous Construction News

Nurses' Home, Brandywine, Del. Architect about ready for bids. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Brandywine Sanatorium, Brandywine, Del. Brick, steel, 3 stories, 56x35 feet, asbestos shingle roof, pine and hardwood floors, electric light.

Hospital and Nurses' Home, Wilmington, Del. Architect about ready for bids. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Homeopathic Hospital, care of architect. Brick, steel, concrete, hospital, 4 stories, 70x40 feet, nurses' home, 3 stories, 97x92x33 feet, composition roof, reinforced concrete floors, elevators, hollow tile, safety treads, waterproofing and dampproofing, fire doors, steel sash, tile, marble, terrazzo, metal lath, electric work, heating extension.

Grade and High School, New Castle, Del. Owners taking bids due September 19th at 2 P. M. (Daylight Saving Time) at County Building, Eleventh and King streets, Wilmington, Del. Architects, Guilbert & Betelle, Newark, N. J. Owners, School Building Commission for the New Castle School District, State

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House, Dover, Del. Brick, limestone, steel, 2 stories and basement, 245x107 feet (plumbing, heat, electric separate bids), slag and slate roof, wood roof deck, maple floors, cement floors, safety treads, metal weather strip, caulking, waterproofing, tile and marble work, rolled steel skylights, kalamein doors, bond, iron stairs, bond, mastic tile floors, rubber stone floors, reinforced concrete, soapstone, bluestone, cement, metal lath, dampproofing. Certified check, 5 per cent. of the bid.

School, near Talleyville, Brandywine Hundred, Del. Low bidders. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State Board of Education, H. V. Holloway, Secretary, County Building, Wilmington, Del. Brick, concrete, timber, 1 story, 199x67 feet (plumbing, heating and electric, ventilating separate). D. M. Fontana, 814 West Fourth street, Wilmington, Del., \$80,223; Richardson & Luce, 1524 Chestnut street, Philadelphia, \$82,697. Plumbing, heating and ventilating, T. T. Weldin & Co., 916 Orange street, Wilmington, Del., \$15,300. Electric, George W. McCaulley & Son, 103 West Eighth street, Wilmington, Del., \$1,329.

Miscellaneous Contracts Awarded

Robinson Hall, Washington, D. C. Contract awarded C. H. Thompkins Co., Washington, D. C. Plumbing, Standard Engineering Co., Washington, D. C. Electric, Duncan Const. Co., Reading, Pa. Elevator, Otis Elevator Co., 502 North Ninetenth street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Sibley Memorial Hospital, Washington, D. C. Brick, steel, fireproof, present building, 5 stories, 2 additional stories, 48x132 feet, hollow terra cotta, tile partitions, alterations on first floor, consisting of changing partitions, installing apparatus and equipment.

Nurses' Home, Cumberland, Md. Contract awarded J. L. Vandergrift, P. O. Box No. 37, Cumberland, Md. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Cumberland Memorial Hospital, Cumberland, Md.

Office, Warehouse and Bakery, Washington, D. C. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Contract awarded George E. Wyne, 2525 Pennsylvania avenue, N. W., Washington, D. C. Owners, Sanitary Grocery Co., Washington, D. C. Brick, steel, concrete columns, 4 stories,

125x100 feet, slag roof, cement and wood floors, steel sash.

School, New Midway, Md. Contract awarded Mr. Weddle, Thermont, Md. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Board of Education of Frederick County, G. L. Palmer, Frederick, Md. Brick, 2 stories, 50x75 feet, slate roof, yellow pine floors, roof ventilators, steam heat, electric light, metal lath.

KITCHEN EXHAUST FAN SAVES COSTLY DRAPES

Greases on Window Ventilator Evidence of Value; Cools in Summer

When cooking greases accumulate and thicken on the blades of the exhaust fan in the kitchen window, it is the best evidence in the world of the effectiveness of electrical ventilation of the home, according to air conditioning experts.

If this ventilating fan were not used, these greases would have streaked the walls of the kitchen and poured forth into other rooms of the house to spoil curtains, drapes, furniture, pictures and other decorations which frequently represent a considerable investment. The greases which accumulate in the fan, of course, are just a small percentage of those which are driven to the outside by the action of the fan. And the greases are more destructive than the odors which the fan takes out.

With the approach of hot weather, many housewives have learned, too, that the kitchen exhaust fan is an effective way to cool the entire home, or at least, produces a cooling effect on the lower floor. This can be done by leaving the front door open so that the fan can draw air through the house and out the kitchen window. Thus, the house is not only ventilated—which helps to drive out insects and moths—but the cooling effect of moving air is apparent.

The ventilating fan has about the same effect on the air and furnishings in the home as a big vacuum cleaner. The cleaning action of a vacuum cleaner is created by a suction produced by a small fan within. That is about the same principle in operating the kitchen exhaust fan, which draws the air with its odors, greases and dusts out through the window.

SCHOOL VENTILATION

Change the air in any theatre every three to five minutes and conditions are made not only more healthful for the patrons but decidedly more pleasant, due to the removal of disagreeable heat, humidity and odors. A theatre recently was completed in Detroit with a seating capacity of 6,000. The air conditions in a place this size would be impossible without mechanical ventilation or air conditioning.

The fact of the matter is that the theatres have cashed in on "millions" because of modern air conditioning. Thousands of patrons go to these playhouses during the hot spell to "cool off"—thanks to air refrigeration. The same principle applies to department stores, office buildings, sport arenas, and other public places where people gather. Ventilating equipment is considered as much a part of any modern building as the heating and lighting apparatus. Foul air, dusty air and reprehensible body odors are considered an insult to average intelligence. They are in the same company with pollution of water and food. Even progressive zoos have turned to controlled ventilation to protect the lives of valuable animals which formerly died from the temperature extremes and excessive humidity of the so-called natural method.

But now comes a self-styled "Commission on Ventilation" in New York state which admits all these things and says that they are very good but declare that a radically different requirement applies to school buildings, where thousands of children are housed. This commission would abolish mechanical ventilation of schools for the substitution of open windows.

That kind of logic is baffling. What public health authorities accept as necessary in practically all types of buildings and what scheming seekers after personal notoriety have found profitable to themselves, evidently does not apply where it is most necessary. Why should the school building or rooms therein be different from the average theatre, public auditorium or office where mechanical ventilation is imperative?

The chief rub against "open window" ventilation has always been that it cannot be controlled. Ventilation becomes a matter of haphazard guesswork—depending upon the whims, physical condition

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and absent-mindedness of the teacher. Dust and dirt blow in. These are usually removed by air washers in the mechanical system. Perhaps the most potent argument against the conclusions of some of the so-called "commissioners" is the fact that ventilating engineers have established their ability to produce any atmospheric condition considered most desirable. Let the medical profession agree on what temperature, humidity and air motion are best for the health of school children and the engineers can produce it exactly—even with slight variations if wanted.

Those who compose the self-styled "ventilating commission" of New York state based their "open window" conclusions on tests conducted in specially selected schools in the east. Unbiased observers—such as trained engineers from the American Society of Heating and Ventilating Engineers—were not called in to supervise the scientific and engineering problems involved in these tests. And that would be very important in any survey or test to be truly scientific. It would be interesting to include, for example, a copy of the competitive bids on the initial installation. An attempt to economize frequently results in a wholly inadequate system. This may account for the popular favor accorded "open window" ventilation in some localities.

If reliance is to be put upon mechanical ventilation, it must be of the best, as one cannot as a rule supplement it by window ventilation without interfering with the whole system. Even an adequate system frequently is slowed down or thrown out of service to save the costs of operation. Until figures are available to the contrary, one can only believe that something of this sort has been the case, wherever objection has been lodged against a modern mechanical ventilating system, under automatic control and properly operated.

A German scientist once said that statistics, like sausages, depends on who makes them.

ROOF OFTEN RECEIVES LEAST CONSIDERATION

Father Time, that relentless old chap, never stops. Hour and hour, day and day, year and year, he grinds away, exacting his toll from all of us.

His gruff old captain, Weather, and those active lieutenants, Wind, Rain, Snow, Frost, and Heat, are always on the job, driving away, destroying the works of man. So they will work on your home, trying, striving to tear down that which you build.

Man from the earliest dawn of history has considered his home the most important and sacred of all institutions which

he has created. Always his aim has been to build a shelter from the elements that was more and more permanent. Always has he attempted to defeat old Father Time and his destructive cohorts. Today he is nearing his goal. Permanent building materials from which he can erect nearly every part of his home are available—awaiting his call.

However, it is still true that one of the most important items in the whole house—the roof—receives from many builders the least consideration.

It presents more surface for the attack of that destructive army and, therefore, should be the best protected.

The roof has been the point where home builders have often figured they could economize. Yet in practically every case it has proven to be false and costly economy. The necessary outlay for repairs, upkeep and replacement of a perishable roof is soon much greater than would have been spent in putting on a roof of permanence in the first place.

Not only have these items cost him more, but beautiful ceilings and interior walls have often been ruined, mounting up his expense for their renewal and repair. And then think of all the trouble and worry.

Is it worth the few dollars saved on the initial cost to roof your home with a perishable roof? Wouldn't it seem as logical to build your walls of cheap, perishable material which would need renewing every few years? No one would think of doing that.

Today, through modern scientific methods, permanent roofing material has been placed within the reach of the builder of even the smallest homes.

—East Bay Builder.

ATTRACTIVE FENCE ADDS BEAUTY

In winter or summer, fall or spring, an attractive fence, like a sundial or a blue room, will contribute beauty to a landscape. And, more often than not, the well designed inclosure will promote even neighborly admiration and approval rather than an offended, shut-out feeling. Primarily fences were used solely to prevent trespasses, but as people advanced in art and culture fences assumed a double purpose, that of decorating or enhancing the grounds they guarded. Consequently, fences of really exquisite design are appearing with increasing frequency.

For comparatively few dollars there can be erected an inclosure which will not only courteously perform the police duty of a "keep-off" sign, but which will add a final touch of nicety to a yard or garden. And furthermore, the task of building such a fence is far from difficult. The home carpenter can easily do the work in a short time.

—East Bay Builder.

HOME OWNERSHIP ROAD TO PROSPERITY

Home ownership as the best road to the prosperity of the individual and the country was the keynote of a conference of representative retail lumber dealers from various sections of the United States, held recently at the Drake Hotel in Chicago.

Organization of a council whose object will be to help home builders build better and more livable homes was the outcome of the gathering, which was presided over by Bror. G. Dahlberg. The lumbermen met primarily to discuss many of their merchandising problems, but the

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home ownership theme was injected into the conference by Fred Ludwig of Reading, Pa.

"The soundest thing in America today is absolute home ownership," said Mr. Ludwig. "It is the keynote to the real prosperity of the individual. People should own a home before they own an automobile or a radio.

"A man who owns a home is a better citizen and a better influence for the community in which he lives."

—East Bay Builder.

Architecture, as an expression of American life, is dependent upon the materials that are best adapted to buildings. American architecture is the outcome of the steel age. This, in substance, is the message conveyed through messages from leading architects published in the Fact Book of the steel fabricating industry by the American Institute of Steel Construction, Inc., just coming off the press. This publication, in addition to presenting current statistics and shop directory, includes a history of steel construction and a tabulation of the most important bridges and buildings in the country.

In a special contribution made to the volume William H. Gompert, architect, of New York, says: "Everywhere there is evidence of re-energized and re-vitalized designing motifs to which all types of buildings owe their high standard of refinement and advancement of architectural design, brought about by the great adaptability of structural steel and the resourcefulness of structural engineering which in modern times has almost attained a state of plasticity."

Mr. Nirdlinger, architect, of Pittsburgh, says: "Steel's contribution to the advancement of architecture is answered by the progress of architectural design the past thirty years, or we might justly say, from the time Ernest Flagg completed the Singer Building (our first modern skyscraper).

"Unlimited credit belongs to the engineer and his associates, including the steel companies, all of whom have made it possible for the architect to design his structures with utmost freedom, and with their continued generous co-operation with the architect and builder I am certain that the various problems that confront the architect and engineer will be mastered."

Francis L. S. Mayers, architect, of New York, says: "The development of steel and its application to construction is the greatest factor in the development of the tall building of today, and without it, American architecture must have failed to keep pace with the progress of its people. The use of steel has made possible the set-back in the tall building, thus providing more air and light for the man in the street."

Anton Buyko, architect, of San Francisco, says: "Steel, which arrived in practicable form some fifty years ago, was not the invention of some far-sighted architect, anxious to introduce a vertical feeling into American architecture and fill American cities with skyscrapers. In the case of steel, as with all other materials, architects have but submitted to the new technological conditions and adapted themselves accordingly. In the chemical laboratories, in the industrial field, new materials and new technical processes are evolution of the process of manufacturing

evolution of the process of manufacturing steel, and because of their superiority, the old materials and processes have been displaced, giving the architect new structural units—new sets of toys to play with."

TEXTURE, COLOR, FEATURE STUCCO

BY THEODORE E. SHEAFER

Stucco, during the past decade, has partly cast aside its habitual conservative colors and textures and comes forth in a variety of shades and textures ranging from conservative to ultra-modern. It has evolved into a flexible building material which is carrying its share of the burden in the campaign to do away with the ugliness and commonplace in homes, characteristics that have given large sections of cities a drab and uninviting appearance.

Stucco ancestry dates back countless centuries to the time when man learned that he could effectively stop up cracks and kinks in his crude dwellings by caulking and chinking with a plastic mix of various clays. It was at first used as a source of insulation only but gradually developed into a product of ornamental possibilities.

There were periods during its subsequent evolution in which stucco did not enjoy a good reputation. Unsuitable cementing agents, improper underconstruction and poor manipulation contributed their share to instances in which a stucco job failed. The dark ages for stucco have disappeared with the advent of better building practice and the predominance of portland cement stucco, a product representing the culmination of extensive laboratory and field investigation for the provision of a highly durable plastering material.

Unlike many other producers, however, the conscientious manufacturer of a correctly formulated stucco cannot guarantee the success of his product on the job unless conditions of construction and application have been properly conformed with. The architect and the plasterer act as his co-manufacturers in producing the "stucco-on-the-job" product, and its merit depends equally upon them.

As mentioned before, there has been a tendency during the past decade toward a generous use of colors and departure from conventional designs and textures. Mineral pigments are now chiefly relied upon for color effects and avail a wider range than can be obtained through the use of natural color aggregates. Red oxide of iron for reds and pinks, yellow oxide of iron for yellows and buffs, brown oxides of iron for brown, and chromium oxide for shades of green, serve as a few illustrations.

Color effects alone cannot give beauty to a home. Form, texture and color must



AN EXAMPLE OF ART CAEN STONE, WINDOW OF M. CAPLAN, 331 SOUTH ST.

ART {

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be congruent to produce harmony and beauty.

French, English, Italian and Californian are examples of modern textures and are particularly well adapted to their rebuilding. Fine textures are usually more speculative types of architecture. The variety of textures possible is limited only by the skill of the craftsman.

Textures ranging from dainty to coarse may be had and are generally chosen according to the size and design of the suitable for small houses while the heavier textures are applicable to larger residences. With its versatility accentuated by modern designing and its durability effected through scientific research and correct building practice, stucco can conform to the architecture of all climates for projects ranging from small private dwellings to large public buildings.

Permanence of structure must not be overlooked. Unless the structure upon which the stucco is placed is sound and free from settling and shifting, unsightly patching will be necessitated. Modern construction methods utilize metal mesh or wire fabric backed with waterproofed paper or equivalent on frame construction or, stucco applied over concrete masonry.

The modern method of using wire mesh reinforcement or masonry units deliver a stucco exterior durable, structurally sound and fire resistive.

Besides being used on new structures of all types, it is a popular material for modernization purposes. It is relatively easy to taken even out-of-plumb walls, furr them out the required distance, and apply a stucco coat that is not only a beautiful material in itself, but has considerable insulation value.

There are a number of patented stuccos on the market, all of them having their own particular following.

Stucco is often waterproofed and made highly moisture-resisting so that it is made more permanent.

No attempt has been made to panegyrize modern stucco and stucco practice; rather a comparison has been offered between old and new methods of construction, design and color. It is felt that the potential field for stucco is increasing rapidly through the agencies of better understanding, improved methods of construction and the creative mind.

—Building Age.

Home ownership and its importance is stressed most graphically in an editorial by Arthur Brisbane, well known journalist and writer, on the front page of the magazine section of the *Cleveland News*. Such an editorial is not unusual for his views as relating to home ownership are well known to his millions of readers, yet this article is seemingly more vividly told because of the excellent illustrations accompanying the article.

There is perhaps no feature editorial writer in the country who has a greater following, especially among the masses whom he reaches through the scores of metropolitan newspapers who use his syndicated copy.

In part Brisbane says:

"Where your treasure is, there will your heart be also."

For a good man there is no greater treasure than his own family, his children, and the mother who has given him the children.

In a palace that cost a million, or a cabin built with his own hands, a man is happy who is independent and has his family to share his happiness with him.

OWN YOUR OWN HOME. Be able to say, living under your own roof and standing on your own land, "THESE

ARE MINE AND WILL BE MY CHILDREN'S AFTER ME."*****

To live in a place that you do not own, a hotel or rented apartment, is all very well while you make up your mind.

BUT IT IS NOT REAL LIVING.

The men who created this country, the pioneers, were above all things HOME SEEKERS. The most powerful desire in the normal human mind of our day or a thousand years ago is the intense longing for a settled and permanent habitation.

Among humans, still hunters and ferocious, women cultivated the fields, tamed wild animals, developed from grasses the grains and vegetables now used, that they might live and remain in one place—A HOME.

The words of a song to which every heart responds are "Home, Sweet Home."

In all ages men have paid tribute to the power and beauty of home life. Nearly two thousand years ago Cicero wrote:

"There is no place more delightful than one's own fireside."*****

The sacredness of a man's home has been recognized for ages, even by the most vicious. One of the most powerful passages in any public address is the following by William Pitt:

"The poorest man may in his cottage bid defiance to all the forces of the crown. It may be frail, its roof may shake, the wind may blow through it, the storms may enter, the rain may enter, but the King of England cannot enter; all his forces dare not cross the threshold of the ruined tenement!"

The unit of happy human life is the FAMILY, not the INDIVIDUAL.

The trinity of earthly happiness is the father, mother and child. The home is the laboratory in which civilization develops and is made worth while.

A. HUSKEY

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MEYER COSSOY

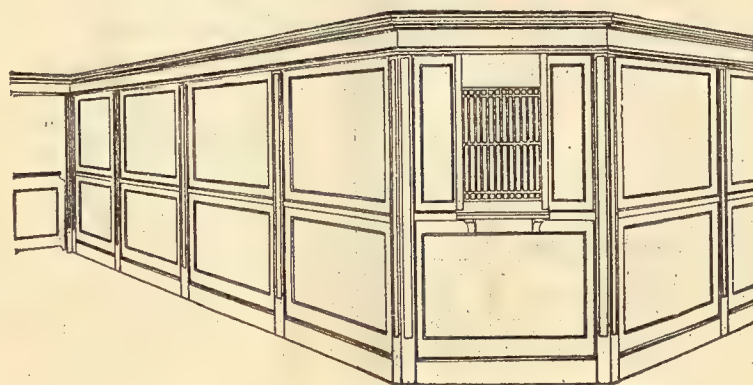
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—*Builder's Weekly.*

HEATING PLANT OF MAJOR IMPORTANCE IN HOME MODERNIZING

By J. E. FOSTER

The modern home must, above all things, be comfortable. People today regard a home as a place in which they are to live, and for this reason they insist on comfort.

No one can be comfortable if he is shivering. Unless his house is properly heated, his teeth will chatter frequently during the winter months if he lives in the temperate zone. For this reason, it is essential that major attention be given heating facilities when a modernizing program is planned.

In general, a heating plant must: Provide a uniform, evenly distributed heat; maintain normal humidity, and be adjustable to temperature fluctuations.

Many old houses are equipped with plants which can supply heat to the house, but do not warm it uniformly and are not adjustable to changes in temperature. As they bring some of the air in the house to a very intense heat, they rob it of its essential humidity. In many cases a heating plant of sound design may become antiquated, and for this reason it may be advisable to replace it.

Experience shows that a radiator system is the ideal method of heating a home. When radiation is used, the radiator passes off heat through the ether (a weightless medium filling all space), which in turn transfers it to other bodies. The exact process of radiation is rather hard to understand. It may be compared to the phenomenon of tuning forks. Suppose two tuning forks are set side by side, and one is struck. The second tuning fork will begin to vibrate, although it was not directly set in motion. The same principle operates when radiator heat is used. The heat vibrations from the radiator are transferred to other objects with which it is not in direct contact.

In general, there are two types of radiator heating: hot water and steam. The difference between them is implied in their names. There are also certain variations of each type. The home modernizer should consult his local heating contractor regarding the different types of radiator heating systems, and select the one which best fits his individual requirements.

Each system of radiation distributes the heat evenly throughout the entire house when the radiators are placed under the windows. As they do not heat the

air directly, they do not rob it of its essential humidity. They can be regulated to temperature fluctuations. They are economical to operate, and they last indefinitely.

A radiator heating plant can be installed in a building which has already been constructed. While such an installation can be made any time of the year, it is usually advisable to make it during the spring or summer, when there will be no necessity for warming the house.

The equipment required must be determined by a heating contractor. The method by which the calculations are made is a complicated one, involving mathematical formulae, and can not be discussed here. The owner should, however, decide what type of radiator heat he wishes, as well as other matters of a somewhat specific nature.

In the first place, he must determine the rooms he wishes heated. Of course, there are the normal living quarters. But there is no reason why he should stop here. By heating the attic, he can turn this part of his residence into a den or a children's playroom. There is also the basement. Most people give little thought to it. By installing an overhead radiator down there, a recreation room can be automatically created. If the boiler is set to one side, and a colored, jacketed one is installed, the entire basement can be used for recreational purposes.

If the home owner has a garage, he will naturally wish to heat this during the winter. He can do this by carrying a line from the residence boiler to the garage and installing one or two radiators or installing a small garage boiler with wall radiators.

The contractor should be notified in advance of the cubical contents of the space to be heated, including those in the garage. There are two reasons for this. In the first place, the size of the boiler is determined by the volume of heat it must furnish. In the second place, the amount of radiation is fixed by the space to be heated.

The decorative scheme of the house must not be ignored when the radiators are installed. Many manufacturers produce artistic radiators which will harmonize with interior furnishings. Radiator covers also add to the attractiveness of the rooms in which they are used. Incidentally, special covers are made for low radiators, so that those heating appliances can be turned into window seats with little trouble.

Heat regulators maintain even temperatures by automatically controlling the drafts on the boiler. A regulator is placed in some central location, and its mechanism is set to maintain a certain desired temperature. If the house becomes too hot, the drafts are closed. As the temperature drops, however, the drafts are opened. Some regulators are made to

control the heat in a single room. These are connected with the radiator and do not affect the temperature of the building as a whole.

While the radiator heat does not rob the air of much humidity, it is nevertheless desirable to provide additional moisture during the winter months. This can be done by attaching humidifiers to the radiators. These are long pans which are hung in back of the radiators and kept full of water. As this water evaporates it becomes a part of the atmosphere in the room, and in this way maintains its humidity.

—*Associated Contractor.*

HOMES MAY LACK PERSONALITY

People talk and talk about personality in homes, and yet they cannot tell you what it is, or how to build any into their own homes. As a result very many houses lack personality, although they may be very comfortable and pretty.

Houses that have no personality are houses that are owned by people who care to do nothing but eat, sleep or sit in them. They want their houses to be pretty, so they buy pretty things to put in them and then spend the rest of their lives protecting them from people. The whole pleasure in being a home owner is in being clever enough to make one's home pretty and yet useful to every need of every member of the family—and that takes cleverness!

A small house that is filled with boys cannot be made pretty with the same kinds of material as a house inhabited by a father and mother and one lady-like small girl. In the second house the floors may all be waxed or highly polished and the walls elaborate, but for the first some floors will have to be inlaid linoleum or tile and the walls simple and cleanable. But the linoleum or tile flooring may be just exactly as pretty as the polished hardwood flooring, but it will have a different kind of prettiness. A house that is planned to fill the needs of its inhabitants will not look shoddy before its time—and that is the first thing a family should think about in planning to modernize their home.

Some people are afraid to let the things that happen leave their mark on their home—they think that a house looks untidy if it looks as though it were lived in. Their houses can never have personality.

—*East Bay Builder.*

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

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WALL BOARD
Ketcham, Howard 3rd & Girard Ave., Phila.

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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 37

September 11, 1929

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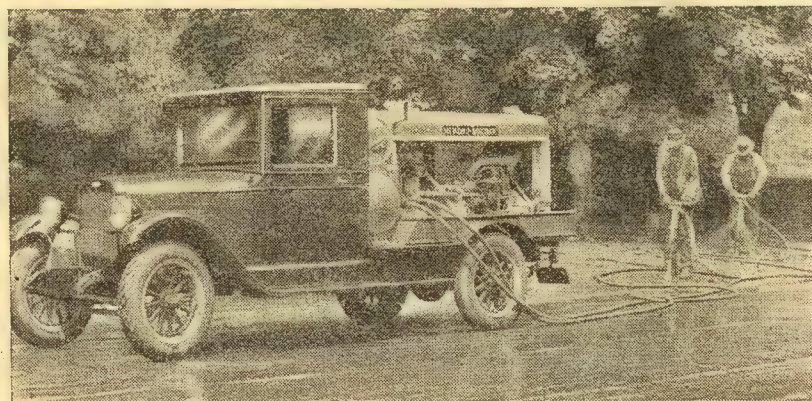
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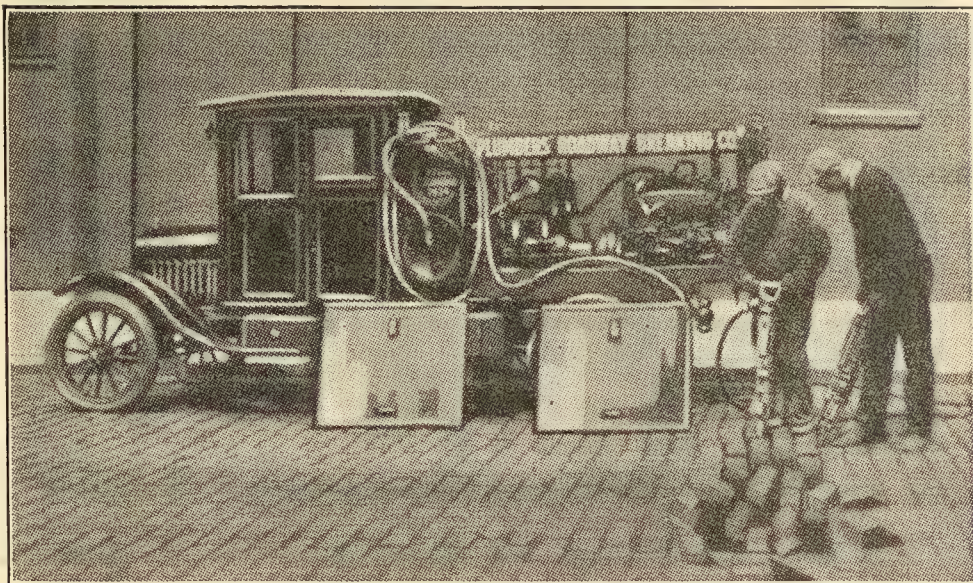
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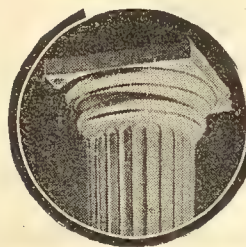
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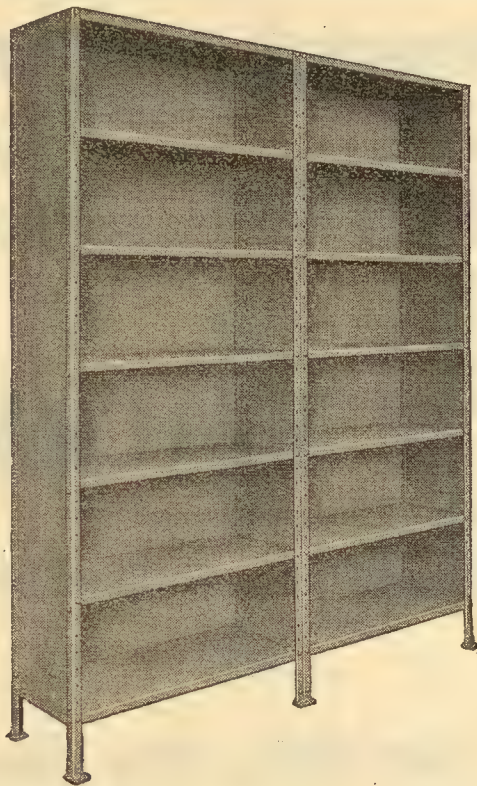
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 37

Engineering and the Building Trades

PHILADELPHIA

September 11, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Nurses' Home, Fiftieth and Woodland avenue, Philadelphia. Architects will soon take bids. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Mercy Hospital, on premises. Brick, stone, 3 stories.

Hare Laboratory Building (alts.), Thirty-sixth and Spruce streets, Philadelphia. Ready for bids in a month. Plans in progress. Architect, George A. Robbins, Otis Building, Philadelphia. Owners, University of Pennsylvania, J. H. Penniman, President, on premises. Steel sash, concrete floors, steam heating, electric work, plumbing, brick work, carpentry and mill work.

Apartment House, Seventeenth and Grange streets, Philadelphia. Owner will build. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owner, Max Chipin, 6746 Old York road, Philadelphia. Brick, 44 apartments, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Service Stations, Fifty-ninth and Walnut streets, Fifth and Godfrey avenue, Philadelphia. Owners will build. Architect, private plans. Owners, Pure Oil Co., Widener Building, Philadelphia.

Store and Apartments, Paul and Orthodox streets, Philadelphia. Architect taking bids due September 18th. Architect, G. Harold Murphy, 4432 Frankford avenue, Philadelphia. Owner, William Freihof, Twentieth and Indiana avenue, Philadelphia. Brick, steel, limestone, 4 stories and basement, 99x127 feet, Barret specification roof, oak, pine and cement floors, plumbing, architectural terra cotta, electric light, metal lath, tile work, fire and kalamein doors, metal bulks, ornamental

iron work, excavation, stone work, concrete and cement work, demolition, bond, carpentry and mill work, Kinnear incinerators, leaded glass, painting, glazing, hardware, electric refrigeration, sprinkler system, plastering.

Store Building, 3112-18 Kensington avenue, Philadelphia. Owners taking bids due September 17th. Architect, J. E. Sexton, Engineering Division, S. S. Kresge, Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Brick, steel, architectural terra cotta, limestone, 2 stories and basement, 115x63 feet, hollow tile, electric light, tile, marble and terrazzo work, kalamein doors, bond, ornamental iron work, waterproofing, excavation, concrete and stone work, cement floors, metal toilet partitions, bronze grilles, oak and maple floors, metal store front, metal ceilings, roof insulation, wood decks, built-up roof, metal lath, plastering, plastic bond, painting, decorating, California stucco, window shades.

Cleaning and Dyeing Plant, Sixty-eighth and Flanders road. Owner taking bids due September 13th. Architect, Irvin Senichel, care of owner. Owner, George Kassabian, 6844 Lebanon avenue, Philadelphia. Brick, steel, 2 stories and basement, slag roof, cement and pine floors.

Incinerator, 135 South Second street, Philadelphia. Owners taking bids due September 26th. Architect, private plans. Owners, United States Appraisers' Office, United States Government, Washington, D. C.

School of Occupational Therapy, 1839-45 Lombard street, Philadelphia. Architects taking revised bids due as soon as possible. Architects, Bissell & Sinkler, 1520 Locust street,

Philadelphia. Owners, School of Occupational Therapy, 2200 Delancey street, care of Mrs. G. Yeatman, Chestnut Hill, Pa. Brick, limestone, steel, 2 stories and basement, 50x70 feet, slag roof, cement and pine floors, plumbing, steam heat, electric light, oil burner, metal lath, tile work, bond, ornamental iron work.

Building of High Level Streets, adjacent to Pennsylvania Railroad Terminal area. Double level facilities, West River Drive ramps, viaduct on line of Arch street, Thirtieth street, and south to Walnut street; 1,800 feet of bulkheading, fill and granite facing. Plans completed. Owners will be ready for bids in 3 weeks. \$2,000,000. Architect, private plans. Owners, Bureau of Engineering and Surveys, Department of Grade Crossing Division, City Hall Annex, Juniper and Filbert streets, Philadelphia.

Schools (3), Thirteenth and Susquehanna avenue, Philadelphia. Central High School, Broad and Green streets. Eleanor Cope Emlen School, Chew and Upsal street, Philadelphia. Low bidders. Architect, I. T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Central High School, William J. Haggerty, 34 South Seventeenth street, Philadelphia, \$11,250; Richardson & Luce, 1524 Chestnut street, Philadelphia, \$12,843. Chew and Upsal School, Ralph Herzog, 10 South Eighteenth street, Philadelphia, \$147,300; John McShain, Inc., 1610 North street, Philadelphia, \$147,987; heating, Mechanical Equipment Co., 214 South Twelfth street, \$14,249; ventilating, Gerbrick & Kauf-

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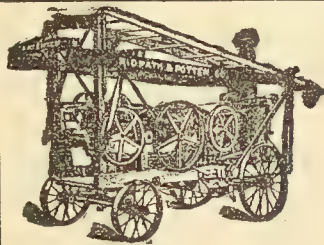
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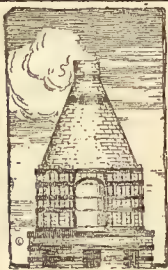
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man, American and Filbert streets, \$1,047; electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$10,153; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$3,783. Thirteenth and Susquehanna Avenue School, William Langhorne, 1904 Parrish street, Philadelphia, \$308,654; Ralph Herzog, 10 South Eighteenth street, Philadelphia, \$317,317; heating, Mechanical Equipment Co., 214 South Twelfth street, \$38,494; ventilating, W. P. Cameron, 4830 North Mascher street, \$1,139; electric, Harry W. Hart, 7010 Ditman street, Philadelphia, \$6,167; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$15,544.

Residences (26), \$93,000. Plymouth street, East of Eighteenth street, Philadelphia. Permit issued. Architect, private plans. Owners, John J. & John E. Bateman, 5601 North Sixth street, Philadelphia. Brick, 2 stories, 15x34 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (9), \$36,000. East side Aramingo street, West of Foust street, Philadelphia. Stores and Residences (10), \$50,000. West side Frankford avenue, South of Unruh street, Philadelphia. Permit issued. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 18x70 feet and 15x58 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Gas Station, \$5,000. Southeast Corner Sixty-first and Baltimore avenue, Philadelphia. Permit issued. Owners, Standard Oil Co., Public Ledger Building, Philadelphia. Brick, 1 story, 18x39 feet.

Residences, \$8,000 total. East side Silverwood street, North of Leverington street, Philadelphia. Permit issued. Owner, George A. Klugh, 4627 Silverwood street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Gas Station, \$4,000. Northeast Corner Broad street and Sixty-sixth avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Harry Levin, 5255 Pine street, Philadelphia. Brick, 1 story, 12x18 feet, slag roof, cement floors, electric work.

Miscellaneous Grading and Paving, Philadelphia. Low bidders. Passyunk avenue, Buist to Seventy-third, Municipal Paving Co., Second and Wingohocking streets, \$6,490.50. Rising Sun, Hutchinson to Venango street, Municipal Paving Co., Second and Wingohocking streets, \$2,591.05. Roomfort, Devon-Boyer, Mack Paving Co., Nicetown lane and C street, \$8,686. Wingohocking, Bodine, American streets, Municipal Paving Co., Second and Wingohocking streets, \$2,395.85. Dauphin, Second to Mascher, Montgomery Paving Co., Harrison Building, \$9,243. Fourth street, Germantown to Thompson street, Montgomery Paving Co., Harrison Building, Philadelphia, \$19,480.75. Dupont, High, Smick, Municipal

Paving Co., Second and Wingohocking streets, \$5,036.50. Sixth, Sedgley, Ninth and Huntingdon, Municipal Paving Co., Second and Wingohocking streets, \$4,144.09. Group No. 24, Barber Asphalt Co., 1600 Arch street, \$37,885.50. Group No. 25, Municipal Paving Co., Second and Wingohocking streets, \$33,870. Group No. 26, Union Paving Co., 123 South Twenty-first street, \$30,432. Group No. 27, Barber Asphalt Co., 1600 Arch street, \$29,827.85. Group No. 28, Eastern Asphalt Co., Pennsylvania Building, \$32,984.80. Group No. 29, Union Paving Co., 123 South Twenty-first street, \$38,932. Group No. 30, Union Paving Co., 123 South Twenty-first street, \$30,925.80. Group No. 1, Eastern Asphalt Co., 1600 Arch street, \$29,962.70. Fourth street, Hewson, to point 100 feet north, Montgomery Paving Co., Harrison Building, Philadelphia, \$1,996.

Supplies, Philadelphia. 302 City Hall Annex, Philadelphia. Owner taking bids due Sept. 16th, 11 A. M., S. T. Hoist, bronze castings, steel poles, bulbs, mechanical record instrument, scraper type derriek bucket, underground junction boxes, rubber covered copper wire, fire, police and patrol boxes, kitchen equipment, boiler tubes. Certified check 5 per cent.

Residence and Garage, Wayne and Mt. Airy Ave., Philadelphia. Architect taking revised bids due Sept. 12th, 9 A. M. Architect, John W. Keyes, Otis Building, Philadelphia. Stone, 2½ stories and basement, 80x36 feet, slate roof, oak and pine floors, metal lath, tile work, bond, ornamental iron work.

Men and Women's Lockers (alts. and add.), Juniata Park, Phila. Owner taking bids due Sept. 17th. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owner, Commissioner of Fairmount Park, City Hall Annex, Philadelphia.

Film Exchange Building, 1225-29 Vine st., Philadelphia. Ready for bids. Architect, Hodgins & Hill, 130 S. Fifteenth Street, Philadelphia. Owner, Stanley Co. of America, 11th and Market Streets, Philadelphia. Brick, steel, concrete, 6 stories, 50x140 feet, concrete slab, built up roof, concrete floors, electric light, steel sash, steel stairs, kalamein doors.

Tunnels, Front and Olney Ave., Philadelphia. Owner taking bid due as soon as possible. Engineer, Carson and Carson, 22 S. 15th St., Philadelphia. Owner, Heinz Mfg. Co., care of Mr. D. S. Light, on premises. Reinforced concrete, 60x17 feet, 70x17 feet, integral waterproofing.

Day and Zimmerman, Engineers, 112 No. Broad Street, Philadelphia, taking bids due September 17th for relief valves, pressure gauge, extra heavy. C. I. Bell and spigot, soil pipe and drainage fittings. Delivered to Eastern Penitentiary.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, West Cliveden avenue, Germantown, Philadelphia. Contract awarded George Tomlinson & Son, 1713 Sansom street. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Anna Lichtenstein, care of architect. Composition floors, stone, 2½ stories, 30x55 feet, 13x21 feet, slate roof, hardwood floors, vapor heat, gas burner, electric light, tile and marble work.

Italian Mission, Southeast Corner Croskey and Indiana avenue, Philadelphia. Contract awarded C. C. Campbell, 6419 Bingham street, Philadelphia. Architect, Edwin A. Yeo, 1520 Locust street, Philadelphia. Owners, Branch of Tioga Presbyterian Church, Rev. R. R. Littell, Sixteenth and Tioga streets, Philadelphia. Basement of church, stone, 1 story, 40x70 feet, slag roof, brick, wainscoting, plaster ceiling, vapor heat, electric light.

Store (alts.), Northeast Corner Seventeenth and Walnut streets, Philadelphia. Contract awarded S. H. Levin, 1619 Sansom street, Philadelphia. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Colonial Trust Co., Seventeenth and Walnut streets, Philadelphia. Demolition, cut stone, concrete, brick, structural steel, wrought iron work, mill work, bronze work, plastering, painting, glazing, electric light, tile and marble work, plaster models.

Store (alts.), 607-09 South street, Philadelphia. Contract awarded F. C. Stockholm, 120 North Camac street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, M. Silverman & Son, Sixth and South streets, Philadelphia. New bronze store front, painting, glazing, marble and terrazzo work, electric light, vitrolite floors, plastering, Zenithern walls, cement and concrete.

Store (alts.), 1627 Chestnut street, Philadelphia. Contract awarded S. Yellin & Son, 222 North Eleventh street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Tendler & Lederhandler, Inc., on premises.

Residence, \$8,200. North side Wigard street, East of Silverwood street, Philadelphia. Contract awarded C. M. Swartley & Son, 6835 Ridge avenue, Philadelphia. Architect, private plans. Owner, J. A. Allan, 6835 Ridge avenue, Philadelphia. Stone, 2 stories, 30x53 feet, hardwood and pine floors, electric light, hot water heat.

Miscellaneous Building (6), \$7,015. North

side Fifty-eighth street, West of Schuylkill avenue, Philadelphia. Contract awarded Blaw-Knox Co., 906 Widener Building, Philadelphia. Architect, private plans. Owners, Sherwood Brothers, Twenty-first and Packer streets, Philadelphia. Iron on iron.

Residence (alts.), \$2,000. 4801-03 North Second street, Philadelphia. Contract awarded William Banger, 4725 North Second street, Philadelphia. Owner, Dorothy Fleetwood, on premises. General alterations.

Tank, \$4,000. West side Reese street, North of Huntingdon street, Philadelphia. Contract awarded Stewart Brothers, 2526 North Orkney street, Philadelphia. Owners, Quaker City Morocco Co., on premises.

Church and Parsonage, \$20,000 total. West side Henry avenue, North of Jamestown avenue, Philadelphia. Contract awarded E. M. Carlston, 4317 Comly street, Philadelphia. Architect, Joseph Miller Blew, Windemere Terrace, Lansdowne, Pa. Owners, American Theological Seminary, on premises. Stone, church, 2 stories, 37 feet 6 inches x 17 feet and 37 feet 6 inches x 45 feet 6 inches, parsonage, 3 stories, 31 feet 10 inches x 22 feet and 19 feet x 22 feet 8 inches, slate roof, hardwood floors, electric light.

Chimney, \$7,000. Southeast Corner Fifty-first and Viola streets, Philadelphia. Contract awarded Rust Engineering Co., 1015 Chestnut street, Philadelphia. Owners, Collins & Aikman, on premises.

Warehouse and Office, \$40,000. 1106-14 Spring Garden street, Philadelphia. Contract awarded F. B. Davis Sons, Inc., 240 North Sixteenth street, Philadelphia. Architect, private plans. Owners, Woodward-Sanger Co., on premises. Brick, 2 stories, 109x40 feet, slag roof, electric light.

Theatre and Stores, \$44,000. 20 to 30 East Armat street, Philadelphia. Contract awarded L. D. Stites, 126 Herman street, Philadelphia. Architect, Charles S. Parker, 5208 Schuylker street, Philadelphia. Owner, W. A. Groff, 51 West Cheltenham avenue, Philadelphia. Brick, 1 story, theatre, 25x34 feet, stores, 30x48 feet and 33x48 feet, slag roof, electric light.

Storage Building, \$25,000. Northwest Corner Cadwalader and Jefferson streets, Philadelphia. Contract awarded M. Moister, Second and Bristol streets, Philadelphia. Architect, private plans. Owners, Sherman Brothers, Germantown avenue and Jefferson street, Philadelphia. Iron on iron, 1 story, 30x95 feet.

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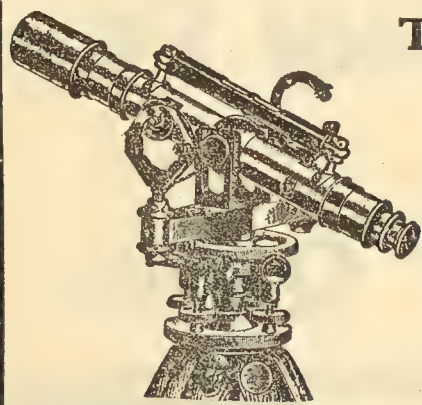
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Store and Office (add.), \$2,400. Southwest Corner Fifty-second and Whitby avenue, Philadelphia. Contract awarded T. S. Fetter, 3312 Lancaster avenue, Philadelphia. Architect, private plans. Owner, Frank F. Mathers, on premises. Brick, 1 story, 15x22 feet, slag roof, electric light.

Residence (add.), \$2,000. 469 Green Lane, Philadelphia. Contract awarded H. Firsching, 461 Harmon road, Philadelphia. Owner, Raymond Partenheimer, on premises. Brick, 2 stories add., 14x16 feet.

Bridges (2), Henry Avenue Bridge, Welsh Avenue Bridge, Philadelphia. Contract awarded: Henry Avenue, Francis A. Canuso & Son, 804 South Twelfth street, \$499,989; Welsh Avenue, Horridge, Elcock & Hall, Real Estate Trust Building, \$176,825.

Residence, South side Waterman Avenue, west of Perkiomen Ave., Philadelphia. \$30,000. Contract awarded Fesmire Bros., Huntingdon Valley, Pa. Owner and Architect, Carl A. Ziegler, 1012 Walnut Street, Philadelphia. Stone, 3 stories, 45x22 feet, 22x52 feet,

slate roof, hardwood and pine floors, hot water heat, electric light, tile work.

Manufacturing Building, \$10,000. East side 2nd Street, south of Rubicum Street, Philadelphia. Contract awarded Supper and Foster, 5440 N. Mascher Street, Philadelphia. Architect, A. F. Forster, 5440 N. Mascher Street, Philadelphia. Owners, Griffith Tool Works, on premises. Brick, 2 stories, 35x60 feet.

Pennsylvania Construction News

School Building (fire rebuilding), \$13,000. Gilbertsville, Pa. Work contemplated. Owners, Board of Education, W. E. Johnson, President, Gilbertsville, Pa.

High School Building, \$80,000. West Conshohocken, Pa. Architect selected. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Montgomery County Commission, A. S. MacKenzie, West Conshohocken. Brick, stone, 1 story.

Sanitarium (add.), \$151,200. Mont Alto, Pa. Plans in progress. Architects, Tilden, Register & Pepper, 1606 Walnut street, Philadelphia. Owners, Mont Alto Sanitarium, care of State of Pennsylvania, Department of Property and Supplies, Benson E. Taylor, Secretary, Harrisburg, Pa.

Sanitarium (add.), \$339,000. Harrisburg, Pa. Plans in progress. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Hamburg Sanitarium Co., State Department of Property and Supplies, Benson E. Taylor, Secretary, Harrisburg, Pa.

Home, \$250,000, near New Cumberland, Pa. Plans in progress. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Cumberland Valley Institution for Mental Defectives, care of Benson E. Taylor, Secretary, State Department of Property and Supplies, Harrisburg, Pa.

Church, Scranton, Pa. Architect will be ready for bids next Monday. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, St. Peter's Lutheran Church, care of architect. Brick, stone, steel, 1 story and basement, 37x105 feet, 30x70 feet, steam heat, electric light, tile, marble, iron, shingle roof, architectural terra cotta or cast stone.

Residence, \$25,000. Pittston, Pa. Plans in progress. Architect, E. J. Rutledge, Union Bank Building, Scranton, Pa. Owner, Mrs. Matilda Egan, Egan Oil & Supply Co., 355 North Main street, Pittston, Pa. Brick, 2 stories.

College (add. and alts.), East Stroudsburg, Pa. Plans in progress. Architects, Davis & Lewis, Scranton Elec. Building, Scranton, Pa. Owners, East Stroudsburg State College, Dr. T. T. Allen, East Stroudsburg, Pa. Brick, general alterations.

Residence, \$33,000. East Stroudsburg, Pa. Plans in progress. Architects, Davis & Lewis, Scranton Elec. Building, Scranton, Pa. Owners, East Stroudsburg State Teachers' College, Dr. T. T. Allen, East Stroudsburg, Pa. Brick, 2½ stories.

Sanitarium (add.), \$294,000. Cresson, Pa. Plans in progress. Architect, Russ Howard, Dubois, Pa. Owners, Cresson Sanitarium, care of State Department of Property and Supplies, Benson E. Talyor, Secretary, Harrisburg, Pa.

School Group (11 schools), Hanover Township, Pa. Revised plans in progress. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Hanover Township School Board, H. J. Williams, 23 Ridge street, Ashley, Pa. General repairs, plumbing, heating and electrical work.

Sunday School, Dallas, Pa. Plans completed. Owners will take bids. Architects, Bureau of Methodist Episcopal Church, 1701 Arch street, Philadelphia. Owners, Dallas Methodist Episcopal Church, Rev. W. E. Webster, Dallas, Pa. Brick, 2 stories.

Residence and Garage, Penn road, Wynnewood, Pa. Plans about completed. Ready for bids in 10 days. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x90 feet, slate roof, hardwood floors, vapor heat, electric light, tile work.

Residence, Guernsey road, Swarthmore, Pa. Plans in progress. Ready for bids in 3 weeks. Architect, Edwyn Rorke, Glenside, Pa. Owner, C. H. Brower, care of architect. Stone, 2½ stories.

Residence, \$35,000. Chestnut Hill, Pa. Plans completed. Ready for bids in a few days. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Harold R. Shirley, 1012 Packard Building, Philadelphia. Stone, 2½ stories, 44x70 feet, shingle roof, hardwood floors, tile work, electric light.

Mausoleum, Wilkes-Barre, Pa. Architects taking sub-bids. Architects, Knapp & Bosworth, Town Hall Building, Wilkes-Barre, Pa. Owner, care of architects, Granite, reinforced concrete, steel, brick, 2 stories, 177x49 feet, slag, pitch and felt roof, marble floors, hollow tile, metal roof ventilators, waterproofing and dampproofing, bronze doors and grill, brass pipe, marble stairs, bond, tile, marble, steam heat, electric light.

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Bank and Apartment Building, Parish and Hazel streets, Wilkes-Barre, Pa. Architects will be ready for bids next week. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Peoples State Bank, care of architects. Frame, 2 stories, 65x28 feet, built-up and asbestos roof, maple and composition floors, vapor heat, electric light, steel casements.

Dormitory (alts.), Retreat, Pa. Architect will be ready for bids next week. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Central Poor District, care of Dr. Basket, Retreat, Pa. Heating, plumbing and electrical work.

Apartment House, Lansdowne, Pa. Owners taking sub-bids. Architect, private plans. Owners, Robert M. Adam Construction Co., High and Chester avenues, Sharon Hill, Pa. Brick, steel, 4 stories and basement, slag roof, oak and pine floors, steam heat, electric light, metal lath, tile work, ornamental iron work, bond.

Apartment House, Bayard Springton, Sheldbourne road, Upper Darby, Pa. Owner taking sub-bids. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owner, Oscar Mechling, Drexel Hill, Pa. Brick, steel, cast stone, 4 stories, 48 apartments, 3 to 6, built-up roof, vapor heat, electric light, tile and marble work, elevators, laundry and kitchen equipment, door beds, plumbing.

Raub Junior High School (add.), St. Cloud and Walnut streets, Allentown, Pa., \$200,000. Owners will be ready for bids in about three weeks. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Allentown School District, D. A. Miller, President, 29 South Penn street, Allentown, Pa. Fireproof, 3 stories, 109x33 feet, 39x65 feet, 30x48 feet, maple and composition floors, hollow tile, safety treads, roof ventilators, fire doors, steel skylights, steel sash, tile, marble, metal lath (heating, plumbing and electric separate).

School (Sunday) (add.), Bath, Pa. Engineer will be ready for general and sub-bids next week. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owners, Christ Reformed Church, Rev. William Helfrich, Bath, Pa. Brick, 2 stories.

School, Swakesville, Pa. Owners will be ready for bids in two weeks. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, North Whitehall Township School Board, P. Meekley, Secretary, Swakesville, Pa. Brick, steel, 1 story and basement, 154x80 feet, slag roof, maple floors, safety treads (heating, plumbing and electric separate).

Cottage and Residence (alts. and add.), Abrams lane, Villa Nova, Pa. Architect taking bids due September 17th at noon. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, R. L. Montgomery, on premises. Frame, stone, 2½ stories and basement, 21x15 feet, 41x29 feet, shingle roof, oak and pine floors, demolition, brick work, carpentry and mill work, hot water heat, electric light, tile work, metal lath, bond, ornamental iron work, plastering, painting, glazing, plumbing, slate roof.

Residence and Garage, Villa Nova, Pa. Architect taking bids due September 14th. Architect, Sherman Coates, 1420 Chestnut street, Philadelphia. Owner, Walter B. Newlin, care of architect. Plumbing, heating, electric wiring separate bids. Frame, stone, 2½ stories, 30x58 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Residence and Garage, Haverford, Pa. Architect taking bids due September 13th. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof.

Residence and Garage, No. 14, Bryn Mawr Farms, Pa. Architects taking bids due September 16th. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement, 10x34 feet, excavation, hardware, limestone, painting, glazing, flagstone, sheet metal work, slate roof, steel casement, iron work, oak and pine, cement floors, metal lath, tile and marble work (heating, plumbing, grading, electric work, refrigeration, screens, weather stripping reserved).

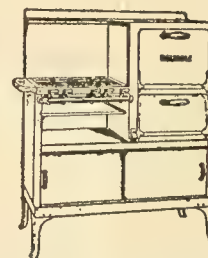
Residence and Garage, Swarthmore, Pa. Architect taking bids due September 16th. Architect, J. Linerd Conarroe, 1518 Walnut street, Philadelphia. Owner, Louis Coles Emmons, Swarthmore, Pa. Brick, steel, 2 stories and basement, hot water heat, electric light.

Church, Fifth street, Allentown, Pa. Architect taking bids due September 18th. Architect, E. M. Pickin, Hun Building, Allentown, Pa. Owner, Grace Episcopal Church, Allentown, Pa. Stone, brick, steel, 1 story and basement, 111x70 feet, slate and asphalt roof, oak and concrete floors, cinder concrete block, steel casement windows, iron stairs, metal lath.

School, Citronia, Pa. Low bidder: Hoch Contracting Co., 329 North Thirteenth street, Allentown, Pa. Plumbing and heating, E. P. Saeger Co., Inc., 1401 Turner street, Allentown, Pa. Electric, C. H. Crowder, Jr., 446 Union street, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, South Whitehall Township School Board, O. N. Miller, President, 732 North

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Twenty-sixth street, Allentown, Pa. Brick, steel, 2 stories and basement, 67x90 feet, slag roof, maple floors.

Electric Work, Capitol Buildings, Harrisburg, Pa. Owners taking bids due September 20th, 2 P. M. Engineer, Frank St. Clair, Jr., Department of Supplies, Harrisburg, Pa. Owners, Commonwealth of Pennsylvania, B. E. Taylor, Harrisburg, Pa. Changing over of electric equipment for A. C. Certified check, \$10,000. Deposit, \$25, refunded.

Paving, Hewes street, North side Ridge avenue, Northwest side Worrillow street, Lower Chichester Township, Pa. Engineer, C. S. Baker, Crozer Building, Chester, Pa. Owners, Borough of Lower Chichester Township, L. E. Pierce, P. O. Box 202, Marcus Hook, Pa. Owners taking bids due September 23rd, 7 P. M. (Standard Time). Certified check, \$250.

Paving, Norristown, Pa. Plans in progress. Engineer, Borough Engineer, Norristown, Pa. Owners, Borough of Norristown, Pa. Hamilton street, Marshall to Oak; Oak, Buttonwood to Hamilton.

Concrete Pavement, Fort Mifflin, Pa. Owners taking bids due September 20th. Architect, private plans. Owners, War Department, United States, Engineering Office, G. B. Pillsburg (Colonel), Gimbel Building, Ninth and Chestnut streets, Philadelphia. 325x26 feet.

Bridges (2). No. 166, over Swamp Creek, Fagleysville, Hanover Township, Pa., \$5,000. No. 74, over Wissahickon Creek, near North Wales, Upper Gwynedd Township, 12 feet wide, add., \$1,500. Owners, Montgomery County Commissioners, Norristown, Pa. Work contemplated.

Residences (2) Garages 3 car, Coswall Lane Minden Manor, Wynnewood, Pa. Owner taking sub-bids. Architect, H. D. Dagit Sons & Co., 1329 Race Street, Philadelphia. Owner Dagit Bros., 1329 Race Street, Philadelphia. Stone, 2½ stories, 34x45 feet, slate roof, hardwood and cement floors, hot water heat, electric light, tile and marble work, terrazzo.

School Ground Paving, Yeadon, Pa. (Bell Ave. and Bunting Lane.) Owner taking bids due Sept. 18th, 7 P. M., D. S. T. Engineer, Damon and Foster, Sharon Hill, Pa. Owner, Yeadon School Dist., Yeadon, Pa., G. R. Anderson, 806 Church lane, Yeadon, Pa.

Residences (2), \$10,000. Stanbridge St., between James and Sterigere Street, Norristown, Pa. Owner will build. Architect, private plans. Owner, Walter D. Pacqualle, James and Buttonwood Streets, Norristown, Pa. Stone 2½ stories, 16x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Pennsylvania Contracts Awarded

Liberal Arts Building (second unit), State College, Pa. Contract awarded Berkebile Brothers, Johnstown, Pa., not yet signed. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Pennsylvania State College, State College, Pa. Brick, reinforced concrete, limestone, steel, granite, 2 stories and basement, 112x57 feet, composition roof, concrete floors, metal lath, tile, marble and terrazzo work, rolled steel sash, bond, ornamental iron work, bluestone.

Apartment House, 345 North Lansdowne avenue, Lansdowne, Pa. Contract awarded Williard Swaab, Crozer Building, Philadelphia, who is taking sub-bids due at once. Work to start in two weeks. Architect, Henry E. Johnson, Jr., 266 South Fifteenth street, Philadelphia. Owners, 345 North Lansdowne Avenue Corporation, W. R. Eddelman, 711 Stock Exchange Building, Philadelphia. Brick, steel, concrete, 6 stories, 60x150 feet, 60 apartments, slag roof, hardwood floors, elevators, vapor heat, electric light, oil burners, tile and marble work, rolled steel sash, kalamein doors, incinerators, kitchen and laundry equipment.

Office Building (alts.), Scranton, Pa. Contract awarded S. Sykes & Sons, 1229 Penn avenue, Scranton, Pa. Architects, Davis & Lewis, Scranton Elec. Building, Scranton, Pa. Owners, Scranton Elec. Co., Linden street, Scranton, Pa. Reinforced concrete, structural steel, waterproofing, cement floors, slag roof, brick, structural tile, sheet metal, metal lath, plastering, ornamental iron, iron work, iron stairs, steel casement windows, area gratings, metal doors, tile, marble, oak and pine floors.

Church, Scranton, Pa. Contract awarded John Bernatovitch, Scranton, Pa. Architect, A. J. Waard, County Bank Building, Scranton, Pa. Owners, Ukranational Church, Scranton, Pa. Brick, stone, steel, 40x90 feet, slate roof, yellow pine floors, electric light.

Store, Restaurant and Living Quarters, Clifton Heights, Pa. Contract awarded Adolph Korn, Lansdowne, Pa. Architect, Charles H. Jester, 131 South Fifty-second street, Philadelphia. Owner, Megard Halfpenny, Clifton Heights, Pa. Brick, 2 stories, 40x75 feet, slag roof, pine, oak and linoleum floors, metal ceilings, hot water heat, electric light, tile work.

Residence and Garage, Loraine Tract, Rydal, Pa. Contract awarded H. W. Specht, Willow Grove, Pa. Architect, John A. Bower, 1518 Walnut street, Philadelphia. Owner, G. Bertram Rager, Noble Vista, Pa. Stone, brick, stucco, 2½ stories and basement, 94x30 feet, slate roof, oak and pine floors, cement work (linoleum and electric reserved), hot water heat, tile work, steel casement windows.

Store (alts.), Norristown, Pa. Contract awarded F. B. White, 1509 Juniper street, Norristown, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owner, Isaac Johnson, 1352 Powell street, Philadelphia. Brick, 1 story, steel, 22x68 feet, maple floors, plate glass, hot water heat, electric light.

Church, Fullerton, Pa. Contract awarded Arthur P. Hauser, Emaus, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, St. John's Reformed Church, M. Newhead, Fullerton, Pa. Stone, brick, 1 story and gallery, seating capacity 500, slate roof, maple floors, hot water heat, electric light.

Bakery (add.), Bethlehem, Pa. Contract awarded E. E. Garber & Co., 203 West Fourth street, Bethlehem, Pa. Architects, Wiegner & Synder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bethlehem Baking Co., 535 Second avenue, Bethlehem, Pa. Brick, steel, slow burning, 2 stories and basement, 40x140 feet, slag roof, wood deck, reinforced concrete floors, roof ventilators, waterproofing, area gratings, steel skylights, steel sash.

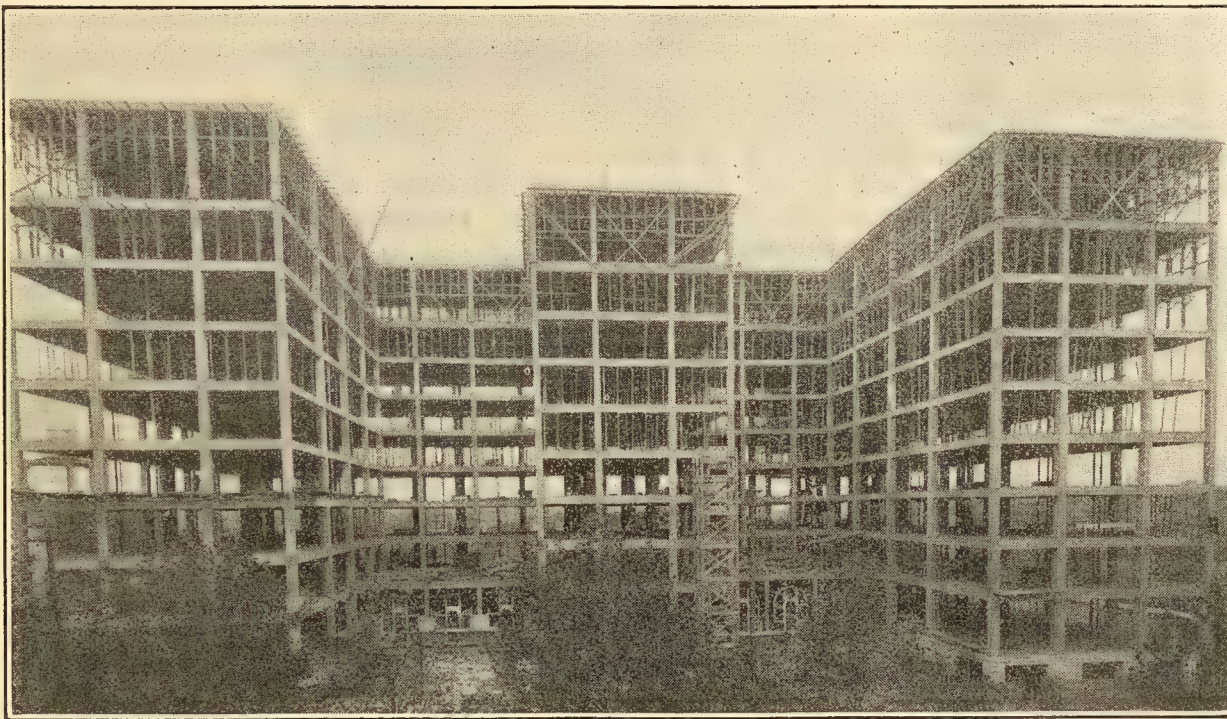
Residence, Wallingford Hills, Pa. Contract awarded Powell Construction Co., Ardmore, Pa. Architect, private plans. Owner, Frank C. Hartzel, care of builder. Stone, frame, stucco, 2½ stories and basement, 47x28 feet, slate roof, oak and pine floors, vapor heat, electric light, ornamental iron work.

Warehouse, Allentown, Pa. Contract awarded W. H. Gangwere & Co., A. N. B. Building, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Hill Metal & Roofing Co., C. S. Shelley, 90 North New street, Allentown, Pa. Brick, steel, 1 and 2 stories, 44x125 feet, steel reinforced deck, concrete floors, steel sash, kalamein doors, cast stone, concrete block.

Repairing, Ford street, West Conshohocken, Pa. (Bridge to West Borough Line). Contract awarded Union Paving Co., 123 South Twenty-first st., Phila., \$8,670. Owners, Borough of West Conshohocken, Pa. 20 ft. wide almost, 1 mile long, bituminous composition of trap rock.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Chester County, R-605, East Nottingham and Elk Townships. Grading and drainage.



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John F. Feeney, 106 Kalos street, Philadelphia, \$32,967.84.

Somerset County, R-186, Somerset and Jefferson Townships. Grading and drainage. McPhee & Frere, Upper Darby, Pa., \$57,687.88.

Washington County, R-268, Sec. 6A, East Pike Run Township. Bridge over Pike Run. P. A. Shaid, Canonsburg, Pa., \$19,671.55.

Northampton County, R-471, Sec. 4, Lehigh Township. One course reinforced concrete, grading and drainage. Collins & Maxwell, Inc., Easton, Pa., \$139,736.68.

Westmoreland County, R-737, Allegheny County, Lower Burnell Township and Plum Township. Bridge over Pucketa Creek. J. W. McLaughlin, Jr., Pittsburgh, Pa., \$26,964.46.

Washington County, R-545, Independence and Cross Creek Townships. Bridge over Cross Creek. H. E. Armstrong, Lisbon, Ohio, \$14,848.31.

Crawford County, R-200, bridge over Woodcock Creek, Richmond Township. Walter S. Rae, Pittsburgh, Pa., \$37,407.80.

Residence (2), 905-07 Buttonwood Street, Norristown, Pa. \$11,000. Contract awarded Rudolph Smith, Norristown, Pa. Owner, Sadie E. Smith, care of Builder. Brick, 2 stories, 16x35 feet, slag roof, hardwood floors, hot water heat, electric light, tile work.

Garage (add.), Berwyn, Pa. Contract awarded Nason and Cullen, Ardmore, Pa. Architect, Edward and Hoffman, 315 S. 15th Street, Philadelphia. Owner, Mrs. Christian Hires, on premises. Stonework, doors, concrete roof, cement work.

New Jersey Construction News

Borough Hall, \$30,000. Oaklyn, N. J. Work contemplated. Owners, Borough of Oaklyn, Mayor Clifford B. String, Oaklyn, N. J.

Club House, Cranmor Farms, Toms River, N. J. Work contemplated. Owner, Cranmor Country Club, Toms River, N. J.

Armory (alts.), Camden, N. J. Work contemplated, subject to approval. Architect, A. H. Moses, Camden, N. J. Owners, State Armory Board, D. S. Hill, Trenton, N. J.

State Capitol (add.), Trenton, N. J. Architect selected. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, State House Commission, State House, Trenton, N. J. Four stories add., 50x200 feet. Too early for details.

Swimming Pool, Recreation Building, Locker Building, Paving, etc. West Bank Cooper River, between Memorial and Baird Boulevard, Camden, N. J. Work contemplated. Survey to be made at once. Architects, Lackey & Hettle, Camden, N. J. Owners, Camden County Park Commission, Major Price, Camden, N. J. Engineer, J. C. Remington, Wilson Building, Camden, N. J. Brick, pool, concrete, approximately 54,000 square feet.

Service Station, Northwest Corner Crescent Boulevard, Brooklawn, N. J. Owner will build. Lessees, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Owner, Charles Kahn, Seventeenth and Chestnut streets, Philadelphia. Grading, paving, hollow tile and stucco building, approximately 12x10 feet, tile roof, electric light.

Church (alts.), Riverton, N. J. Plans to be revised. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Christ Episcopal Church, Riverton, N. J. Stone, 1 story, 14x18 feet, asbestos shingle roof, cement floors.

Residences (25, individual), Colonial Circle, River Bridge Boulevard and Burlington pike, Pensauken, Camden County, N. J. Owners ready for sub-bids. Owners, Colonial Circle Co., care of John McDevitt, second floor, 714

Walnut street, Philadelphia. Brick, stone, 2½ stories, 24x32 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light.

Sewage Disposal Plant, Somerset Hills, N. J. Owners taking bids due 11 A. M., September 24th. Architects, Construction Division, United States Veterans' Bureau, Arlington Building, Washington, D. C. Owners, United States Veterans' Bureau, Washington, D. C. Brick, hollow tile, 1 story, 15x14 feet, hardware, fire doors, bond, ornamental iron work, iron stairs, excavating, reinforced concrete, cement, slate work, iron work, metal ventilators, carpentry, mill work, painting, glazing, hardware, plumbing, steam heat, electric work. Deposit, \$20, refunded. Bid bond or certified check, 25 per cent.

Foundry Building, Florence, N. J. Owners taking bids due September 18th. Architect, private plans. Owners, Florence Pipe, Foundry & Machine Co., Florence, N. J. Brick, steel, 1 story, irregular in size, slag roof, cement and pine floors, ornamental iron work.

Water Plant Equipment, \$4,000. Hightstown, N. J. Owners taking bids due September 17th. Owners, Hightstown Borough Council, Hightstown, N. J. Compressor and motor.

Dormitory, Glassboro, N. J. Low bidders. M. C. Pennell, Merchantville, N. J., \$76,400; Camden Construction Co., 515 Lawrence avenue, Camden, \$78,790. Heating, Harry Knecht, West Collingswood, N. J., \$6,595; South Jersey Engineering Co., 1654 Mt. Ephraim avenue, Camden, \$6,960. Plumbing, Harry Knecht, West Collingswood, N. J., \$9,275; Burns, Lane & Richardson, Trenton, N. J., \$9,500. Electric, William E. Snell, 226 Elmer street, Vineland, N. J., \$1,474, \$614; John S. Dalton, 34 North High street, Millville, \$1,595, \$550. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State Nor-

mal School, care of State Board of Education, Trenton, N. J. Brick, 3 stories and basement, 167x45 feet, slag roof, wood floors.

Store House, Trenton, N. J. Low bidder: Joseph Seidenglanz, 1245 Chambers street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, F. J. Clark, 119 North Broad street, Trenton, N. J. Stucco, stone, 2½ stories, 32x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Bridge, between Mantoloking and West Mantoloking, over Barnegat Bay. Work contemplated. Owners, Borough of Montoloking, Ocean County, N. J. Electric driven draw, 3 traffic lanes, 3 vehicle traffic lanes, 1 sidewalk.

Bascule Bridge, Barnegat City to Island Beach, N. J. Engineer selected. Plans in progress. Engineer, William H. Collison, Jr., Ocean City, N. J. Owners, State Board of Commerce and Navigation and Ocean County Board of Freeholders, T. E. Thropp, Trenton, N. J. Steel, concrete, 2,900 feet long.

Stret Paving, Contract 12-3. Camden County Park Commission, Berlin, N. J. Owners taking bids due September 19th, 9 P. M. (Daylight Saving Time). Owners, Park Commissioner, 807 Z. M. Caster, Camden, N. J. Deposit, \$10, refund \$5. Bond. Certified check, 5 per cent. 15,200 square yards 8-inch reinforced concrete, 2,250 square yards 7-inch concrete gutter, 650 lineal feet 8-inch header curb, 5,800 lineal feet 6-inch concrete curb, 600 lineal feet 6-inch radius curb, 9,000 square feet 4-inch concrete sidewalk, 1,300 square yards asphalt paving, 4,500 cubic yards grading, 6 N. J. Type B inlets, 70 feet 36-inch concrete pipe, 170 feet 36-inch 14 gauge corrugated iron, gravel road oiling, 28,000 gallons asphaltic oil grade S. C. O., 900 tons sand.

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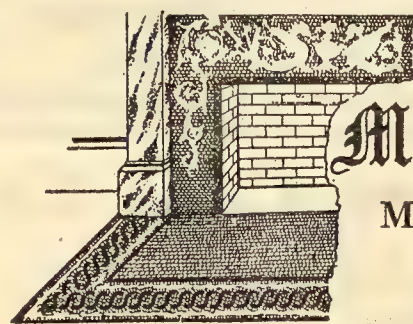
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Bridges (6). Route 6, Sec. 3, over Homestead avenue, East Brinckerhoff avenue, East Central Boulevard, East Palisades Boulevard, East Edsall Boulevard and Oakdene avenue, Palisades Park, Bergen County, N. J. Low bidders: Keep Construction Co., Elizabeth, N. J., \$349,730. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation excavation, concrete, structural steel, reinforcing steel.

Road Work, New Jersey. Low bidders. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 25, Sec. 4A, Cranbury Turnpike to Raritan River Bridge, Middlesex County, N. J. Concrete. Utility Construction Co., New Brunswick, N. J., \$204,411.

Route 31, Sec. 5, Chester to Gladstone, Morris and Somerset Counties. Excavation, reinforced concrete. S. J. Groves & Sons Co., Ridgefield, N. J., \$315,027.90.

Monument, Gloucester Park, N. J. Owner, ready for bids. Architect, Edward & Hoffman, Green, Camden, N. J. Owner, Camden Park Commissioner, care of J. C. Remington, Camden, N. J. To be erected of old brick and limestone, bronze tablets.

Contract 30-8, Extension of lighting system, Sec. 30, Gloucester City, N. J. Owner taking bids due Sept. 19th. Owner, Park Commissioner, Wilson Bldg., Camden, N. J. Furnish and install 11 light standards. Deposit, \$10. Refunded \$5. Certified check 10%.

Paving, Route 8, Sec. 3, through Blainstown in Warren County, N. J. Owners taking bids due Sept. 18th at 1.30 P. M. (E. S. T.) Owners, Board of Chosen Freeholders of Warren County, Court House, Belvidere, N. J. Engineer, H. W. Vetter, Court House, Belvidere, N. J. Reinforced concrete pavement, (1) concrete bridge.

Road Work. Route 39, Sec. 3, Chambers Corner to South Pemberton Road, Burlington Co., N. J. Owners taking bids due Sept. 23rd at noon (D. S. T.) Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Excavation, concrete pavement, gravel shoulders. Certified check 10 per cent. Deposit \$10.00.

Bridges (2), New Jersey. Route 37, Sec. 4, across North Branch of Toms River, N. J. Route 39, Sec. 3, 4, 5, and 6, in Burlington County, N. J. Owners taking bids due Sept. 23rd at noon (D. S. T.) Owners, State Highway Comm., A. Lee Grover, Trenton, N. J. Deposit 10.00. Certified check 10 per cent.

New Jersey Contracts Awarded

Residences (2), \$7,000. 2927-29 Carman Street, Camden, N. J. Contract awarded Tomlinson and Goodfellow, 259 S. 27th St., Camden, N. J. Owners, Mrs. W. R. Hylton, care of Builders. Brick, 2 stories, 16x40 feet, slag roof, warm air heat, electric light.

Machine Shop (alts. and add.), Newark, N. J. Contract awarded United Engineers & Constructors, Inc., Broad and Arch streets, Philadelphia. Plans and specifications on file in Newark office. Owners, American Can Co., Newark, N. J. Reinforced concrete, brick, steel, steam heat, electric light, rolled steel sash, slag and gypsum roof, concrete floors, extension machine shop, 3 stories and basement, building, 1 story and basement, heating plant building, 1 story.

Hotel and New Stores (add.), Michigan avenue and Boardwalk, Atlantic City, N. J. Contract awarded M. B. Markland, Schwehm Building, Atlantic City, N. J. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owners, Dennis Hotel, on premises. Brick, reinforced concrete, steel, 7 stories and basement, 72x52 feet, architectural terra cotta, ornamental iron work, cinder concrete block, demolition, piles, limestone, blue-stone, granite, waterproofing, slate and tile roof, metal lath, marble and tile work, bronze windows, safety treads, bronze threshold, plumbing, electric, elevators, steam heat.

Reconstructing Steel Concrete Encased Bridge, Ocean avenue, Monasquan, N. J., \$20,986. Contract awarded S. S. Thompson & Co., Inc., Red Bank, N. J. Owners, Monmouth County Board of Freeholders, Freehold, N. J.

Paving, Asbury avenue, Neptune Highway to Greensgrove road, reinforced concrete, \$75,982. Shrewsbury avenue, from Red Bank to Holmdel road to Sycamore avenue, Shrewsbury, \$36,225.

Miscellaneous Construction News

Administration Building, Wellesley, Mass. Plans completed. Architect will soon take bids. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Wellesley College, Wellesley, Mass.

School and Gymnasium, location withheld. Plans in progress. Ready for bids in 6 weeks. Architect, Robeson Lea Perot, 137 West Harvey street, Philadelphia. Owner, name withheld. Stone, steel, 2 stories and basement, 65x150 feet, slate roof, block end, composition, maple floors, excavation, gymnasium equipment, grading, metal lath, tile work, hollow metal skylights, bond, steel casement windows, painting, glazing, copper work, auditorium.

Residence and Garage, location withheld. Plans in progress. Ready for bids in 3 weeks. Architect, Robeson Lea Perot, 137 West Harvey street, Philadelphia. Owner, name withheld. Frame, 2½ stories and basement, 30x50 feet, asbestos shingle roof, oak and pine floors, plumbing, hardware, hot water heat, electric light, tile work, bond, ornamental iron work, steel casement windows.

Administration Building (alts.), Science Halls, Kindergarten and Primary School Building. Location withheld. Plans in progress. Work contemplated. Architect, Robeson Lea Perot, 137 West Harvey street, Germantown, Pa. Owner, name withheld. Stone and steel.

RECOMMENDED PRACTICE FOR BUILDING CODES

Excerpts from Reports of Building Code Committee of the United States Department of Commerce, Elimination of Waste Series, July 15, 1925. Sold only by the Superintendent of Documents, Government Printing Office, Washington, D. C. Price 10 Cents

The building code of a city is its fundamental law as to what building materials can be used and how they can be used. The interest now being shown in building code revision makes this article especially timely, as fair codes are essential if the construction industry is to prosper.

These recommendations are a valuable contribution to the science of Building Code legislation. They consist of (1) an introduction, (2) recommended outline for building code and (3) appendix. Quotations in part, read:

Building ordinances may originate or be revised by several different methods or agencies.

1. Civic Organizations.—Codes may be drafted or amended by independent civic bodies such as chambers of commerce or citizens' associations, or by organized ef-

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fort of some group affected directly by code requirements, the suggestions being adopted by city legislative bodies. This procedure does not as a rule accomplish the best results unless the persons selected for the task are specially qualified. Recommendations thus prepared are liable to overemphasize subjects in which such groups are interested, and the resulting ordinance is not well balanced. On the other hand, civic or commercial organizations can perform a useful function by calling attention to the need of code drafting or revision by forcing initiation of the work.

Professional and trade organizations have much that is valuable to contribute, but no one group will usually have the time and energy to complete such a large undertaking. There is also the danger that suggestions from any one source or group will not be broadly enough considered.

2. Building Officials.—Building codes often are drafted or revised by building officials, subject to approval by municipal legislative authority. Some excellent codes have been prepared in this manner where the building officials happened to be particularly well qualified for such service. Generally, however, a building official alone should not be held responsible for the preparation of the ordinance. There is need for more than one viewpoint on the problem, and the building official, moreover, is often too busy to give such work the time and attention it requires. He is in an excellent position to criticize such legislation from the practical standpoint of enforcement and can render invaluable co-operative service with a properly selected committee.

The building officials in many cities are empowered to interpret or add to code requirements by rulings, which, after due notice and public hearings, assume the force of law. Such a procedure is necessary and desirable. A code, no matter how carefully prepared, will need further interpretation. Such interpretations are better published, for otherwise they remain unknown except to local designers, and their correctness or justice is not thoroughly subject to public and professional scrutiny.

The Department of Commerce building code committee advocates publication of an appendix with all codes, which will provide in part for such interpretation and aid in supplying the data upon which changes should be based.

3. Local Code Committees.—When the drafting or extensive revision of a building code becomes necessary and it is desired to avoid the expense of a specialist by utilizing the knowledge and experience of the building official and of local technical and industrial groups, this is most successfully accomplished by organizing a committee representative of all

groups affected. It is, of course, necessary that these men be experienced in their particular lines, and that they have the confidence of their respective groups. They should be selected not alone for their technical ability but also for their capacity to work together effectively in committee procedure. Sometimes outstanding ability may be sacrificed to advantage in order to get men who can see both sides of a question.

The membership should, if possible, be selected from men having some years of experience in architecture, engineering (structural, sanitary, or fire prevention), or may include any specialist in public utilities, foundation work, or building erection who may be available. The chief building official should always be a member. The chief of fire department is also a good man to have on such a committee. Sometimes a well-qualified mason or carpenter can be utilized to advantage. Legal talent can be included, if desired, but usually such assistance is not necessary except to review the finished ordinance to ascertain if it is in binding legal form.

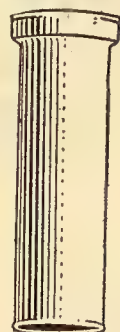
The size of such a committee must depend upon circumstances, but usually five members make a satisfactory working body. A large committee is liable to become unwieldy, though it may sometimes function effectively through subcommittees to which specific parts of the work are submitted for preliminary investigation and wording.

The members qualifying for such service will be busy men and seldom able to give more than a small part of their time to the work. It will usually be necessary, therefore, to employ a secretary capable of carrying on, under direction, the clerical and research work necessary to put the code provisions in shape for discussion by the committee.

In drafting a local building ordinance, recognition must always be given to any existing State building code or special building laws, and assurance made that the local requirements are at least as strict as the State Laws. It is permissible to make local laws more restrictive than State laws, and frequently desirable to do so, for the latter are usually minimum requirements applicable to all municipalities within the State and do not take into account local fire or other hazards which may exist.

4. Special Consultant.—It is best, though not always possible, to secure the services of an architect or engineer experienced in this type of work to write a building code. The services of a specialist are usually expensive as to first cost, but, as in many other fields of endeavor, they will prove well worth while in the end.

Unless a building code is drafted with extreme care concerning the correctness of its numerous requirements and their relation to each other, obsolete provisions are apt to creep in, also unexpected applications develop which are objectionable



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and expensive. There is, furthermore, an essential difference between a building specification and a building code, based on the police power, which those who draft building codes frequently fail to appreciate. Codes written by competent architects and engineers often take the form of specifications for good practice instead of stating minimum safe limits. Even definitions frequently are written as specifications. In such cases the result is a code which, because of its numerous detailed requirements, is only partly enforceable, and which is in effect a law applying to the conscientious, but little heeded by those who need regulation most. This pitfall a specialist is more apt to avoid, with greater resultant economy and freedom of structural design. His practice keeps him constantly in touch with the great mass of investigational work being done by laboratories and professional groups and enables him to utilize the latest discoveries in each field. Such a specialist should always work in conjunction with a local advisory committee, and their joint recommendations should be freely submitted to those interested and should be discussed at public hearings before enactment by the local legislative body. . . .

The Value of a Building Code

Even when the need of a modern code is recognized it is often difficult to obtain the necessary funds for its preparation because the benefits which accrue to a community, although tangible, are particularly difficult of estimation in direct financial terms.

The great advantage resulting from the adoption of such an ordinance is the general betterment in character of buildings, which in turn improves the city's appear-

ance, benefits health conditions, and diminishes the fire hazard. A proper building code, well enforced over a period long enough to influence the character of construction, reduces the probability of fire spread in individual buildings, and lessens the conflagration hazard. Insurance underwriters, in grading a city according to its fire hazards, as a foundation for establishing a base rate, give credit for adequate building laws and good construction to an extent varying 15 to 25 per cent. of the total number of points employed in the grading.

In addition to this pecuniary advantage to the citizen as a whole, there are usually substantial reductions in premiums on insurance policies covering individual buildings, resulting from the improved construction required by ordinance. The total of such reduction aggregates a considerable financial sum. . . .

Copying of Existing Codes Unwise

Sections or articles most emphatically should not be copied verbatim from other codes without careful study of their fitness; and particularly to determine if they conform to standards of uniformity recommended by the Department of Commerce. Many of the defects of existing codes result from this practice. The code from which sections are "lifted" may be an excellent one, but if the borrowing is not done with great care the result will be a disorganized accumulation of requirements, inconsistent with each other, and out of harmony with recent developments.

The same careful scrutiny should be given a code in process of revision. Conflicting requirements or those which no longer apply should be omitted. Amendments are apt to have wider ramifications than is first apparent. . . .

ident's Unemployment Conference. Dr. Gries notes that the construction of two-family houses is steadily decreasing in importance.

"Overbuilding of apartments, which are built to rent does not have such an immediate effect upon new construction; even where new apartments are not needed they may be partly occupied, and they may be sold to investors who are not well informed as to local conditions," Dr. Gries reports.

"The desire of families to live in more satisfactory homes and surroundings has been the force behind the large home-building program. As has been customary, the new houses erected in and around cities have been for families in the upper income groups, with comparatively little construction for families in the lower groups which for the most part occupy less desirable structures.

"The private automobile and the bus, with improved roads, have greatly enlarged the area within which dwellings may be located, and have permitted comparatively open developments in attractive locations to an extent that would not have been possible before the war. The demand for outdoor recreation favors the home situated away from the center of the city. The families' enlarged radius of movement due to the automobile, together with the neighborhood movie, the radio, and shorter working hours, strengthens the call toward the suburbs. One-family dwellings when not erected by the occupant, are almost always erected for sale.

—Building Developer.

PAINT STILL AN IMPORTANT ESSENTIAL OF OUR DAILY LIFE

While its true origin has not yet been discovered, the genealogy of paint unearths a long line of historical antecedents. Indeed, it can be traced as far back as Noah's ark. Equally as interesting as its age, however, is the fact that paint has not been placed aside as an antiquated idea, but still remains an important essential of everyone's daily life.

Whether the practical use of paint as a preservative preceded its esthetic importance may, too, remain a mystery. But it does serve both purposes equally well, and the question—a much disputed one—is interesting.

It may be that the first men, seeking shelter from the fierce and glaring suns of Biblical countries, constructed rude huts. Of perishable nature, these would rapidly decay, and it is probable that the occupants in seeking artificial means of preservation hit upon the pigments of the earth in their search. It is natural to suppose that the instinct of preservation led to such a discovery, although a desire to imitate the colorful beauties of nature may have prevailed.

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LITTLE ATTENTION PAID TO HOUSES FOR FAMILIES WITH SMALL INCOMES

Building of single family houses has been the outstanding development in the field of residential construction during the past decade in the United States, according to Dr. John M. Gries, author of one of the chapters of the survey of the National Bureau of Economic Research. The survey will be published shortly with the report of the Committee on Recent Economic Changes of the Pres-

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From the Bible comes the earliest record of the application of a preservative to a wooden structure, when Noah painted the ark inside and out with pitch. Whatever the pitch lacked as a method of decoration, it was a triumph of preservation.

At a very early date ornamentation in color comes to light. In ancient Babylon the walls were covered with representations of hunting scenes and combat. They were done chiefly in red, and the method followed was to paint the scene on the bricks at the time of manufacture, assuring permanence by baking.

In Egypt the records of the kings were painted upon the walls of the palaces, temples and tombs. And at that time, over twenty-five hundred years ago, the Egyptians came into possession of a varnish which was composed of materials very little different from those used today. The wooden mummy cases brought from Egypt recently exhibit for proof the durability of this preservation.

The Greeks recognized the value of paint as a preservative and made use of something resembling it on their ships. Pliny writes of the mode of boiling wax and painting ships with it, after which he continues, "neither the sea, nor the wind, nor the sun can destroy the wood thus protected."

At a somewhat later period the Jews adopted many customs of the people who obtained power over them, and in the Apocryphal book of the Macabees is found this allusion to the art of decoration: "For as the master builder of a new house must care for the whole building, but he that undertaketh to set it out and paint it must seek out the things for the adorning thereof."

The aboriginal Indians used colors and drawings on their skins and bark to record events in their lives and the traditions of their tribes. They also painted themselves with ochre and clay to terrorize their enemies. Their skin tents were painted with figures of birds and animals. The Alaskan Indian also carved and decorated his totem pole in color to record the deeds of his ancestors and his own history.

And so down through the ages paint has proven its right to supremacy by surviving the relentless tests of time. Through the progress of civilization its importance as a protector and beautifier has increased, with nothing invented to take its place.—*East Bay Builder.*

APARTMENTS—HOW TO PLAN THEM

By F. A. McNALLY

McNally & Quinn, Architects and Engineers, Chicago

The prevailing trend towards tenant ownership type of occupancy for apart-

ments in the various metropolitan centers of this country during recent years has put to a test the ingenuity of the architectural and engineering professions because of the many special requirements demanded by the buying public. The purpose of this article is to present a few germane features which might well be given consideration in the planning of buildings of this type. No doubt most apartments built to be rented may be benefitted by the incorporation of some or all of the features hereinafter set forth, but their absence will be felt to a greater degree in the modern co-operative apartment building.

Developers, with the idea of erecting co-operative apartment buildings, often wonder as to the relative merits of several pieces of property available. A corner lot, with its principal exposures being other than north, is one which can be most advantageously developed. The elimination of northern exposures exclusively for the principal rooms of any apartment building is an essential feature. Where the selection of an inside lot is under consideration, the occupancy of the adjacent property should be studied thoroughly. Quite often inside lots, opposite public parks, bodies of water, et cetera, may be developed in a fashion comparable to corner lots.

A building located on a corner lot should have as many units as possible facing the principal street.

Too wide a range in the size of the units of any one building should be avoided, as quite often it is found that the intermingling of tenants whose living requirements range from the smallest to the largest apartments, militate against the final purchase of either type.

Several successful buildings erected on corner lots in the Chicago district have dispensed with apartments facing the side

streets, even though the lot may seem not to have been developed to its maximum capacity. This method of planning makes every apartment equally well located and the developer is not forced to overprice or underprice his units to arrive at his average selling price.

The entrance lobby on the ground floor need not be too large. It should be simple in detail and attractively furnished to impart a residential atmosphere to the structure. The incorporation of large elaborately furnished and heavily detailed public rooms is to be discouraged in co-operative apartment buildings because it is unnecessary.

The master rooms should be as large as possible. Developers sometimes find that the plan with the living room and dining room adjacent to each other, and facing the street, has preference over one in which these rooms are separated from each other. This type of plan, however, quite often means the installation of additional service elevators.

The incorporation of a wood burning fireplace in the living room of each apartment is, in the majority of instances, a selling asset and consideration should also be given to the building of fireplaces in the libraries and in at least one of the chambers for the higher priced apartments. These fireplaces should be built with individual flues and properly proportioned insofar as size of openings is concerned. Provision should be made for the storage of wood in the apartment.

The reception room, gallery or foyer to each apartment should be as large as the occasion permits as this room is the first feature to attract the prospects' attention.

The hallways and passages to the chambers should be as wide and as short as possible for convenience.

Access should be possible to the reception room or gallery from the kitchen or

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servants' quarters without requiring that one go through the living room or dining room.

One chamber should be considerably larger than the others and it should have a large adjacent bathroom. The installation of a separate shower stall in this bathroom is worthy of consideration because of its popularity. The incorporation of at least one large dressing room adjacent to the largest chamber and its bathroom is a feature that is rapidly gaining favor in the larger apartments.

Two closets for each chamber is an essential feature in the higher priced apartments and one of these closets should be as large as possible if sales are to be made.

Bath rooms should adjoin each chamber as the trend seems to require as many bathrooms as one can afford. The bath tubs and lavatories should be of the wider and larger type.

There seems to be a tendency towards the reduction of the amount of tile work formerly used in the bath rooms of the most expensive type of apartments, leaving for the individual buyer the selection of his own colors and the amount of tile required. Each bathroom should be equipped with towel cases and medicine cabinets.

Most builders find that if the walls throughout are canvassed and given an attractive paint job that the requirements of the average buyer are fulfilled, although recently we find the use of wall paper for the chambers to be gaining in favor.

The selection of the type of floors to be used in the main rooms should be given consideration. The best type of oak flooring seems to fit most conditions, although cork tile, marble and other types

of flooring are adaptable under certain conditions. The floors of the service portion may be maple or cement for the installation of linoleum, rubber tile, et cetera. Ample linen storage space should be provided. Provision should also be made for the storage of the linen required by the service department.

The installation of cedar or other so-called mothproof closets seems to meet with present-day fancy.

The pantries should be large and equipped with broom closets, china and silver storage compartments. Silver sinks and storage vaults are quite often used in apartments of the more expensive type. Adjacent to each kitchen there should be a storage closet for equipment.

The kitchen entrance doors and service elevators should be as large as possible with the view of accommodating the installation of large pieces of furniture.

All kitchens should be mechanically ventilated.

As many public and private telephone extensions should be placed in each apartment as the problem demands.

High ceilings are becoming more popular in co-operative apartment buildings.

One of the most important features in the planning of co-operative apartment buildings is the absolute subordination of the exterior to the floor plan insofar as fenestration is concerned. This at first may seem a rather broad assertion but the correct location of windows to allow for proper room balance together with the important item of window draping provisions should be given first consideration.

The spacing of doors and windows to insure the installation of full width trim and to give proper clearances for decorative hangings is a point of utmost im-

portance. The placing of windows too near the corners of a room should be avoided for the same reason. In many buildings the interior decorator finds it almost impossible to solve his client's problems because of the fact that the architect gave but little thought to these most important features.

The location of doors and windows to allow for the proper placing of furniture is another point of prime importance.

The prevailing fashion requires that radiators be concealed in recesses under windows where possible. This allows a larger range for decorative treatment.

If the developer's selling program includes the furnishing of refrigerators and stoves, these items should be as large and well finished as possible, for one of the most essential points, insofar as its appeal to the woman buyer is concerned, is the provision of the best obtainable kitchen equipment. The refrigerators should have ample food storage capacity and be equipped with a mechanical refrigerating unit whose ice freezing capacity is abundant.

Refuse incinerators, if properly installed, are a very desirable feature. They should be located immediately outside the kitchen door if possible.

Servants' rooms in co-operative apartments should be larger than those in buildings of any other type.

In apartments requiring two or more servants' rooms it is good practice to incorporate in the plans a servants' dining room or hall.

Apartments of the most expensive type should be provided with individual laundries and storage rooms. These laundries and storage rooms are most often located in the basement or ground floor, although in some cases they are built on each floor adjacent to the apartments which they serve.

All windows should be as large as practical and the window sills as low as possible.

The arrangement of rooms should be flexible, for a building becomes more readily salable if rooms may be added to or deducted from the typical plan without undue sacrifices and costly structural and mechanical changes.

In apartments of the more expensive type the location of vertical plumbing and electrical risers is a point most worthy of consideration. If these risers are properly located, rooms and bath rooms may be shifted from one location to another without excessive expense being incurred.

The incorporation of sound resisting mediums is a most essential item in the construction of tenant owned apartment buildings.

It is impossible to provide too many electrical outlets in the form of base plugs, wall brackets, ceiling outlets, switches, et cetera, and because of the present day use of table lamps the switch-



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ing of base outlets is an item worthy of consideration in the higher priced apartments.

Where the climate demands, the installation of weatherstripping and the caulking of window frames is a most important item.

In recent years the duplex type of apartment is meeting with a most favorable reception from the buying public. The feeling seems to be that an apartment with the living room, library, dining room, kitchen, and maid's quarters on the lower floor with the master chambers and bath rooms on the upper floor comes nearest to filling the requirements of the average buyer's conception of a home.

The present day zoning and building laws which permit and quite often require the use of set-backs, provide terraced areas and give the architect an opportunity to design buildings which have a tremendous selling advantage.

Garage facilities should be incorporated in co-operative apartment developments, if possible, with provision for at least one car per apartment.

It should be needless to say that too much thought cannot be given to the proper selection of the best types of standard equipment, machinery, et cetera. The proper selection of boilers, pumps, valves, elevator equipment, et cetera, will always assure low operating costs.

The architect should strive to impart a residential feeling in the designing of any co-operative apartment building, as this item is the most important one in the entire problem.

"CONTRACTOR'S CREED"

MAGNETIZES INTEREST

Col. Davis, a member of the Northwest Branch of the A. G. C., has utilized observations he has made during long experience in the construction industry by compiling a "contractor's creed." This creed, contrived in alphabetical arrangement, which appeared in the Northwest A. G. C. News, follows:

A—All men were born nearly equal, but they do not stay that way.

B—Be fair and just to your fellow men.

C—Calm yourself when things go wrong.

D—Do the job right regardless of all things.

E—Even when things go wrong read the four lines above.

F—Frankness is a fine thing, but a close mouth never has to retract.

G—Good work may be its own reward, but you cannot live without a profit.

H—Honesty is the best policy. Be sure that the other fellow is honest.

I—Income is something we must all have. Remember that when you bid.

J—Judge your fellow men by what they do, not by what they have.

K—Know the men you deal with, that's better than a credit rating.

L—Learn that this life is only temporary, there is another life beyond.

M—Money is one measure of man's success. There are other things to consider.

N—No one knows the future, but faith in the future will help us all.

O—Opinions on this subject are personal and vary greatly.

P—People in general agree that there is a future life.

Q—Questions on this subject have been argued in churches for many years.

R—Rest is said to be the true reward for honest toil. Should it be the only reward?

S—Sound principles always win out.

T—Thinking means progress. Contractors should think.

U—Unity means strength, therefore contractors should be united.

V—Value your friends, that they may value you.

W—Why are contractors such damn fools?

WHAT KIND OF PLASTER BASE?

BY ROGER STEWART

Good plastering obviously depends on three things: a firm structure, a good plaster base, and a good plaster. All are necessary, but of the three the plaster base is probably the most vital because without it the best plaster and the best structure will not stick together.

Although there are many plaster bases from which the builder may choose, all of them may be grouped into three simple classes. A discussion of these groups as a whole will perhaps indicate, more clearly than a discussion of the individual types, which kind of plaster base to use to secure the desired results.

The three groups may be called key types, suction types and reinforcing types. At once some one will say that metal lath, for example, is both a key type and a reinforcing type, and that scored clay tile holds plaster on both the cushion and the key principles and that consequently these classifications are not clearly defined. Be that as it may, these three divisions will serve efficiently to determine how each individual kind of lath or plaster base may best be chosen for any kind of plastering job.

Key Types

The first group includes all plaster bases in which the plaster is forced through holes or open spaces in its plastic condition in such a manner that when it sets it cannot be drawn back through these spaces. Wood lath is of the key type because the plaster is pushed through the spaces between the lath, where it spreads out and hardens to form a strong key made of plaster which must be broken away from the main body of plaster before the latter can fall away from the lath.

Metal lath of all types depends on this keying function to hold the plaster wall in place. All the wire fabrics fall into this classification for the same reason. Scored hollow tile is also a key type of plaster base because the ground coat is pressed into the dovetail grooves from which it cannot pull away.

What are the advantages and disadvantages of the key plaster bases, taking them as a whole rather than of any specific type?

In the first place, the strength of the ground coat plaster is what holds the scratch and finishing coats in place. This, of course, is ample for any condition if the plaster itself is properly made and applied. Good plaster will never break away from a key type base as long as the

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base itself remains intact, until the plaster itself disintegrates.

On the other hand, all of the plaster that is pushed through to the back of the plaster base is wasted so far as its effect is concerned beyond the exact amount necessary to form a key with the lath or fabric. Under practical working conditions this waste may be excessive, for if the ground coat is too wet it will run down the back of the lath in large quantities, and if it is too dry it will drop off and be utterly useless.

A key type plaster base, which is used only as a means of holding the ground coat against the wall, does not theoretically have any ability to reinforce the plaster itself against minor cracks which may follow slight movements in the structure itself. In practice, however, most of the key type bases do act as a reinforcement to some degree.

This is particularly true of the small mesh wire fabrics and the ordinary types of metal lath.

Suction Types

The next group includes the whole range of "wall-boards"; that is, any material applied over the studs or furring strips which is in solid sheet form, without perforations from which the plaster can be keyed.

It includes many types of insulating board which are also designed for use as heat insulators, and all of the so-called plaster boards. This entire group holds the plaster by what may be broadly termed suction. It is the same way that glue takes hold in the fibres of wood. The wet plaster penetrates the tiny surface pores and forms innumerable microscopic fingers all over the surface of the wall-board.

When the wallboard is properly designed and the plaster is correctly made and applied, this suction or adhesive effect is amply strong to hold the customary weight of plaster on either walls or ceilings.

Let us again consider the advantages and disadvantages of wallboards as plaster bases. Obviously they do not waste any plaster because none is used for a key effect except the minute quantity that penetrates the surface pores or takes hold of the fibre ends on some types of wall-board.

These wallboards are quickly applied, covering large areas at a time and they form a flat, smooth surface that is closely parallel to the face of the finished plaster.

On the other side, it must be apparent that they rely for their holding properties chiefly upon the adhesion which the plaster has with the surface of the wallboard. If the wallboard absorbed moisture or if it disintegrated through any cause, these minute fingers would tend to let go and the plaster fall away. This rarely occurs, to be sure, but it is a condition that must be borne in mind when considering

plaster bases from a theoretical point of view.

A practical matter, however, arises in connection with the joints between sheets of wallboard. Practically all wallboards have considerable strength in themselves. They can be tested against all types of distortion and they rarely fail until they pull away from the nails that hold them to the studs.

Since the studs or furring strips themselves, being made of wood, are subject to some slight motion due to expansion and contraction when moist or dry, or due to movement in the building structure itself, these joints between plaster boards are the weakest points in the wall and may cause cracks to appear in the finished plaster unless special precautions are taken to avoid them by use of reinforcement.

The joints are also the trouble points with any type of wallboard that shrinks or swells with changes in humidity of the air or when water actually strikes it from a leaky roof or from condensation on water pipes.

To overcome this practical difficulty with wallboards, particularly those that are made in large sheets, it has now become customary to apply a strip of metal lath or wire fabric over the joints to add reinforcement to the plaster at these places. Some plasterers and many architects recommend the use of a reinforcing material of this type all over the surface of the wall when insulating boards are used, because they do not place sufficient reliance on adhesion or suction alone. When so used these materials fall into our third classification, reinforcing types.

Reinforcing Types

Before discussing them, however, it should be noted that plaster applied directly on common brick or gypsum blocks, on wood lath or on unscored and unglazed hollow tile also relies for its strength and holding power on this adhesive property of plaster.

The third group includes all types of plaster bases which are actually embedded in the heart of the plaster where they act like steel reinforcement in concrete structures. Any wall that is "back-plastered" makes the plaster base function as a reinforcement of a more or less perfect type.

Backplastering, however, is usually done more for the protection of the plaster base against fire or rusting than to give this reinforcing effect to the plaster wall. It has already been noted that metal lath and small wire mesh fabrics have a reinforcing effect if an excessive amount of plaster is run through the back of the lath and also if the job is back-plastered.

The true reinforcing types are somewhat different in character. They all use a wire fabric which is so arranged as to become thoroughly embedded in the heart

of the plaster by self-furring devices that hold the mesh slightly apart from the studs.

To accomplish this result they have a heavy backing of a strong material like high-grade building paper which functions in several ways. When the ground coat is applied over the fabric it presses the paper away from the wire a short distance and forces the plaster around the wires so that it completely embeds them, thus producing a monolithic, uniformly reinforced slab of plaster.

The backing presumably has some of the adhesive properties of a wallboard and helps to hold the wet plaster in place until it takes its initial set although it is not primarily designed for this purpose. It subsequently protects the back face of the plaster and probably adds some measure of heat insulating and sound deadening properties, although these have not yet been scientifically measured.

A reinforcing type of base holds the plaster securely to the wall or ceiling because the plaster itself would have to disintegrate entirely before it could fall away.

The steel takes up the tensile stresses that ordinarily cause cracks, if the structure is reasonably firm. This type of reinforcing base is usually applied in sheets, which are overlapped at the joints.

Wire fabric when applied on a wall or ceiling is subject to sagging unless tightly stretched between studs, ceiling beams or furring strips, unless the fabric itself is stiff like metal or wood lath or any of the common types of wallboard. If the fabric does sag in this manner, it requires more plaster to fill up the hollow spots than is normally necessary, and if there are bulges the plaster is too thin at these points to give a satisfactory result.

How Reinforcing Helps

This problem has been solved very recently by an ingeniously designed reinforcing base that consists of a welded wire fabric having a mesh about 2 inches square, to which is laced a heavy, tough and durable paper backing by means of a series of V-shaped stiffening bars running the length of the sheet.

These stiffeners make the reinforcing fabric more rigid and prevent any buckling, thus forming a straight clean surface that economizes on plaster like a wallboard and yet has all the advantages of a paper-backed plaster reinforcement. The stiffening bars can be bent to fit the material around or into corners. The sheets are of convenient size for the lather to handle and can be easily cut with ordinary metal shears.

What type of plaster base should be used? The question cannot be settled here because so many factors must be taken into consideration on each specific job. Decision must follow careful study.

—*Building Age.*

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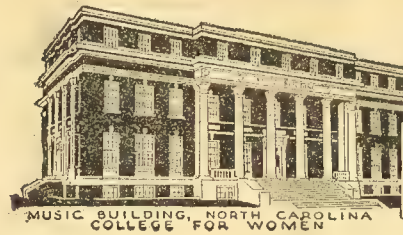
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BUILDING PAPER

Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 38
September 18, 1929

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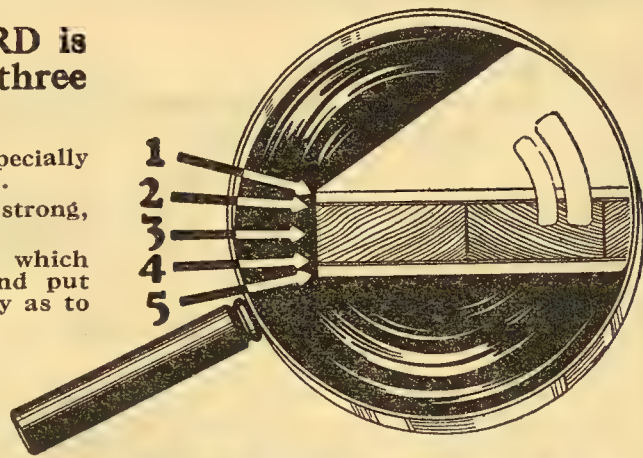
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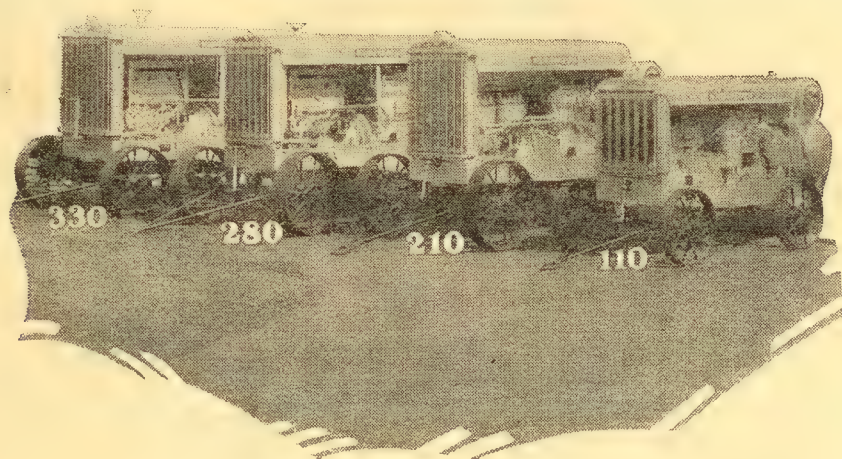
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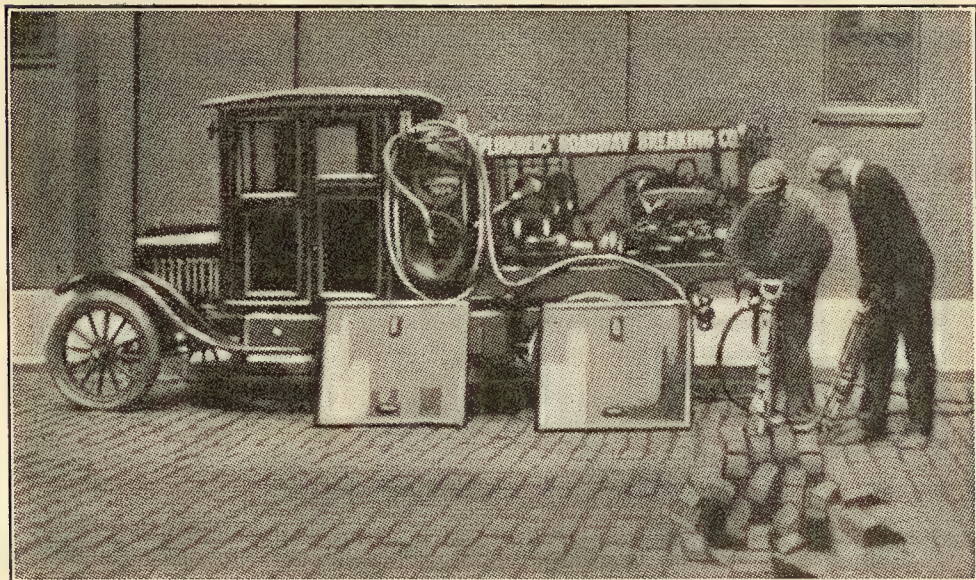
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 38

Engineering and the Building Trades

PHILADELPHIA

September 18, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence and Garage (1), Allen's Lane, between Green and Wissahickon ave., Phila. Ready for bids in a few days. Architect, Edwyn Rorke, North Glenside, Pa. Owner, George Steumpfig, care of Germantown Theatre, Phila. Stone, 2½ stories.

Building (alts.), Juniper and Walnut streets, Philadelphia. Plans about completed. Ready for bids in one week. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Bankers' Trust Company, on premises. Alterations to first floor and basement.

Combination School and Church, Levick, Battersby, Hawthorne and Passemore streets, Philadelphia. Preliminary plans in progress. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Timothy's Roman Catholic Church, Rev. Thomas F. Brady, 3121 Robins avenue, Philadelphia. Stone, 2 stories and basement.

Residence and Garage, Westview and Wayne avenues, Philadelphia. Architect taking bids due September 25th. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Williard S. Boothby, 1515 Locust street, Philadelphia. Stone, brick, steel, limestone, 2½ stories and basement, 45x30 feet, garage, 25x20 feet, heating, rubber tile floors (linoleum floors reserved), electric light, metal lath, tile work, bond, steel casement windows, cinder concrete block, slate roof, oak and yellow pine floors, plumbing, metal weather stripping.

Junior High School, Thirty-second and Tasker streets, Philadelphia. Plans completed.

Owners ready for bids in one week. Due October 1st. Architect, Irvin T. Catharine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia.

Apartment House, York road and Edna street, Philadelphia. Plans in progress. Architect will be ready for sub-bids September 23rd. Architect, Louis J. Cohen, 519 Real Estate Trust Building, Philadelphia. Owner, A. Stark, care of architect. Brick, steel, limestone, 6 stories, 163x300 feet, 108 apartments, steel trussed gypsum roof or concrete roof and floors, 2 passenger elevators, 1 service elevator, vapor heat, oil burners, electric light, tile and marble work, hollow metal skylights, kalamein doors, door beds, incinerator, kitchen and laundry equipment.

Residence, \$7,000. 1226 St. Vincent street, Philadelphia. Owner will build. Architect, private plans. Owner, William Weigle, 1224 St. Vincent street, Philadelphia. Brick, frame, 2 stories, 22x29 feet, 17x8 feet.

Residences (4), \$20,800. East side Central avenue, West of Cottman street, Philadelphia. Permit issued. Architect, private plans. Owner, Fred Redner, 101 Ryers avenue, Cheltenham, Pa. Brick, 2 stories, 16x25 feet, 18x25 feet, electric light, carpentry.

Undertaking Establishment and Residence (alts. and add.), 1532 North Fourth street, Philadelphia. Architect taking bids due as soon as possible. Architect, Clarence L. Caspary, 1701 Walnut street, Philadelphia. Owner, C. F. Brenner, on premises. Brick wing addition, 2 stories, 12x30 feet, alteration pres-

ent building, new limestone front, 3 stories, 16x84 feet, hot water heat, electric light, metal lath, tile work, slag roof, oak and linoleum floors, plumbing, leaded glass, general alterations.

Gas Stations (3), \$13,500. Southeast Corner Chew and Belfield, Northwest Corner Seventy-second and Woodland, Southwest Corner Fifty-fourth and Chestnut streets, Philadelphia. Permit issued. Architect, private plans. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Brick, tile, 15x18 feet, 20x40 feet, 18x39 feet, cement work, electric light, tile work.

New Store Front and Alterations, 842 North Marshall street, Philadelphia. Owner ready for general bidders. Architect, Louis J. Cohen, 519 Real Estate Trust Building, Philadelphia. Owner, Joseph Magnes, 852 North Marshall street, Philadelphia. New front, rear addition, brick, 1 story, 12x10 feet, slag roof, pine floors, plate glass, electric light.

Garage, Seventeenth and Norris streets, Philadelphia. Owner taking bids due as soon as possible. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Charles Goldman, 1702 Walnut street, Philadelphia. Brick, steel, 2 stories and basement, irregular, steam heat, electric light, slag roof, cement floors.

Stores (2), \$8,000. East side Nineteenth street, South of Cheltenham avenue, Philadelphia. Permit issued. Owners, Erny & Nolen, Nineteenth and City Line, Philadelphia. Brick, 1 story, 33x67 feet.

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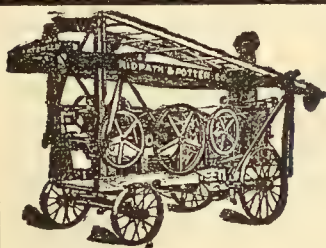
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Rectory, Sanger street and Roosevelt Boulevard, Philadelphia. Architect taking bids due September 25th. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Martins of Tours Roman Catholic Church, Rev. J. P. McHugh, Rector, 5100 Roosevelt Boulevard, Philadelphia. Mt. Airy granite, steel, 3 stories and basement, 91x45 feet, slag roof, oak and pine floors, steam heat, electric light, tile work, metal lath, rolled steel sash, ornamental iron work, concrete and cement work, hardware, plumbing, painting, glazing, plastering.

Film Building, 1223-25 Vine street, Philadelphia. Architects taking bids due September 25th. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Stanley Company of America, Eleventh and Market streets, Philadelphia. Brick, steel, concrete, 6 stories, 50x140 feet, concrete slab, built-up roof, concrete floors, electric light, steel sash, kalamein doors, steel stairs.

Warehouse and Bakery, Tenth and Somerville avenue, Philadelphia. Architect taking bids due September 19th at noon. Owners, Union Building Company of Pennsylvania, Newark, N. J. Lessees, Almar Stores, Inc., 925 North Front street, Philadelphia. Brick, steel, reinforced concrete, 3 and 2 stories and 1 story and basement, 520x100 feet, concrete floors, fire doors, kalamein doors, waterproofing and dampproofing, bond, hollow tile, slag roof, rolled steel skylights, steel partitions, iron work, bronze work, caulking, hardware.

Loading Station and Stable, Oxford avenue and Bleigh street, Philadelphia. Architect taking bids due September 20th. Architect, Karl F. Otto, 2240 N. Broad st., Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, steel, 1 story and mezzanine, 59x120 feet, 170x188 feet, slag roof, cement floors, plumbing, steam heat, electric light, rolled steel sash.

Gasoline Station, Torresdale and Bridge streets, Philadelphia. Ready for bids September 16th. Architect, private plans. Owners, Metro Stations, Inc., 1520 Mitten Building, Philadelphia. Brick, stucco, 1 story, 15x15 feet, tile roof, cement floors, electric.

Office (add.), \$2,000. East side Delaware avenue, Green to Fairmount avenue, Philadelphia. Owners, Philadelphia Rapid Transit

Co., Mitten Building, Philadelphia. Cinder block, second story add., 16x21 feet. Permit issued.

Contract No. 226, station finish, Broad Street Subway. Contract No. 227, wall tile finish. Low bidders: Contract No. 226—Kaufman Construction Co., 26 South Fifteenth street, Philadelphia, \$81,732.50; W. J. Haggerty, 34 South Seventeenth street, Philadelphia, \$84,679. Contract No. 227—Central Brick & Tile Co., 1635 North Broad street, Philadelphia, \$74,309.50; E. P. Henry & Co., Ninth and Oxford avenue, Philadelphia, \$85,808.

Residence and Garage, Towando avenue, Chestnut Hill, Pa. Plans in progress. J. S. Cornell & Co., 1528 Cherry street, Philadelphia, will build. Architects, Tilden, Regiser & Pepper, 1608 Walnut st., Phila. Owner, Schofield Andrews, Land Title Building, Philadelphia. Stone, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile work.

Sales and Service Station, south side of Hunting Park, east of Germantown avenue, Philadelphia. Architect taking bids, due September 23rd. Architect, Engineer of General Motors Co., Detroit, Mich., Albert Kahn, Inc., Detroit, Mich. Owners, United Motor Service, Inc., 342 North Broad street, Philadelphia. Brick, steel, one story, slag roof, cement floors, plate glass, electric light.

Sewage Disposal Plant, Pump House, Wernersville, Pa. Owners taking bids, due September 20th. Architect, Fred. Dechant, 632 Washington street, Reading, Pa. Owners, Wernersville State Hospital, Wernersville, Pa. Brick, 24x80 feet, composition roof and floors, roof vents, cast steel pipes, brass pipe, wrought iron pipe.

Contract No. 224, Underground Cable System, No. 228 Subway Entrance Enclosure, Broad Street Subway, Phila. Owner taking bids due Sept. 27th, 11 A. M. Certified check. Owners, Department of City Transit, 13th floor, City Hall Annex, Philadelphia. Deposit \$25.00 refunded.

Church, Ogontz and Wister streets, Philadelphia, Pa. Ready for bids in two weeks. Architects, C. W. Bolton & Son, Schaff Building, Philadelphia. Owners, Faith Reformed Church, Rev. E. E. Luhart, 7233 Ogontz avenue, Philadelphia.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Club House (alts. and add.), 1317-19 Spruce street, Philadelphia. Contract awarded J. N. Gill Construction Co., 1500 Chestnut street. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Engineers' Club of Philadelphia, on premises. Brick, marble front, general alterations and additions, ventilators.

Factory, Erie avenue, F to G street, Philadelphia. Contract awarded Turner Construction Co., 1700 Walnut street, Philadelphia.

Owners, I. Fischman & Son, Tenth and Allegheny avenue, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Brick, reinforced concrete, steel, granite, asphalt roof, gypsum roof deck, concrete and oak floors, hollow tile, roof ventilators, metal window guards, metal weather strip, caulking, metal and rolled steel sash, waterproofing and dampproofing, flagstone, cast stone, rolled steel skylights, fire and kalamein doors, bond, iron stairs, steel casement

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Store Building (5 and 10 cents), Frankford avenue and Granite street, Philadelphia. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia. Brick, granite, steel, 2 stories and basement, 188x40 feet, built up roof, maple, oak and pine floors, hollow tile, plumbing, architectural terra cotta, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal sash, kalamein doors, plumbing, Kinnear doors, metal toilet ceilings. Architect, J. E. Sexton, Engineering Division, S. S. Kresge, Detroit, Mich. Owners, S. S. Kresge, Detroit, Mich., care of Mr. D. G. Munro, Benjamin Franklin Hotel, Philadelphia.

School of Occupational Therapy, 1839-45 Lombard street, Philadelphia. Contract awarded Fred A. Havens Co., 843 North Nineteenth street, Philadelphia. Architects, Bissell & Sinkler, 1520 Locust street, Philadelphia. Owners, School of Occupational Therapy, 220 Delancey street, Mrs. Georgina Yeatman, East Graver's Lane, Chestnut Hill. Brick, steel, stone, concrete.

Garage, Twenty-fifth and Mifflin streets, Philadelphia. Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Crean Brothers, Inc., Eighteenth and Oregon avenue, Philadelphia. Brick, concrete block, 1 story, 50x150 feet, steam heat, electric light, slag roof, steel sash skylights.

Store and Residence (alts.), \$2,500. 3128 Kensington avenue, Philadelphia. Contract awarded Roman Construction Co., 751 Jericho street, Philadelphia. Owner, E. T. Shuttleworth, 3056 Kensington avenue, Philadelphia. Architect, private plans. General alterations.

Store and Residence (alts. and add.), \$2,300. 5629 Chester avenue, Philadelphia. Contract awarded John Swartley, Beverly Boulevard, Upper Darby, Pa. Owners, Finnaren & Haley, Sixtieth and Thompson streets, Philadelphia. Architect, private plans. Brick, 1 story, 16x7 feet.

Store and Restaurant, 114-16 South Eighth street, Philadelphia. Contract awarded Roberts & Roller, 1700 Walnut street. Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia. Owners, Horn & Hardart, 204 South Warnock street, Philadelphia. Brick, limestone, steel, 2 stories and basement, 35x87 feet, slag roof, cement floors, hollow tile, metal lath, tile work, rolled steel skylights, ornamental iron work, bond.

Restaurant, 1429 Arch street, Philadelphia. Contract awarded Roberts & Roller, 1700 Wal-

nut street, Philadelphia. Architect, Ralph B. Bencker, 1601 Chestnut street. Philadelphia. Owners, Horn & Hardart Baking Co., 204 South Warnock street, Philadelphia. Brick, limestone, 2 stories and basement, 20x100 feet, slag roof, hollow tile, cement floors, roof ventilators, metal lath, tile, marble, rolled steel skylights, bond, ornamental iron work.

Warehouse, Swanson and Jackson streets, Philadelphia. Contract awarded A. Raymond Raff Contracting Co., 1635 Thompson street. Engineer, C. S. Parks, care of Harshaw Chemical Co., Cleveland, Ohio. Owners, Harshaw Chemical Co., care of Mr. Hurford, on premises. Brick, steel, 2 stories, 60x100 feet, slag roof, concrete floors, electric lighting, plumbing.

Demolition, Junior High School, Corinthian and Girard avenues, Philadelphia. Contract awarded Franklin M. Harris Co., 1520 Parrish street. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, on premises.

Mill Building (add.), \$3,000. 5817 Walker street, Philadelphia. Contract awarded Lewis Deitrick, 5921 Walker street, Philadelphia. Owner, W. D. Oursler, on premises. Brick, 1 story, 22x30 feet.

Garage (add.), \$5,500. Southwest Corner Stenton and New street, Philadelphia. Contract awarded Stokes Brothers, 6732 Musgrave street, Philadelphia. Architect, private plans. Owner, Philimen Dickinson, on premises. Stone, 1 story, 19x41 feet.

Service Station, Old York road and Sixty-ninth avenue, Philadelphia. Contract awarded Lutz Construction Co., Twenty-third and Chestnut streets. Architect, private plans. Owners, Standard Oil Co., Public Ledger Building, Philadelphia. Hollow tile, stucco, 1 story, 15x18 feet, tile work, cement floors.

Service Station, Torresdale avenue and Aramingo avenue, Philadelphia. Contract awarded Lutz Construction Co., Twenty-third and Chestnut streets, Philadelphia. Architect, private plans. Owners, Standard Oil Co., Public Ledger Building, Philadelphia. Hollow tile, stucco, 1 story, 15x18 feet, tile work, cement floors.

Schools (3). School, Thirteenth and Susquehanna avenue. School, Central High, Broad and Green streets. Eleanor Cope Emlen School, Chew and Upsal. Contracts awarded. Architect, I. T. Catherine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, Nineteenth and Ludlow streets, Philadelphia. Thirteenth and Susquehanna Avenue—William Langhorne, 1904 Parrish street, Philadelphia, \$308,654; heating, Mechanical Equipment Co., 214 South Twelfth street, \$38,494; ventilating, W. P. Cameron, 4830 North Mascher street, Philadelphia, \$1,139; electric, Harry W. Hart, 7010 Ditman

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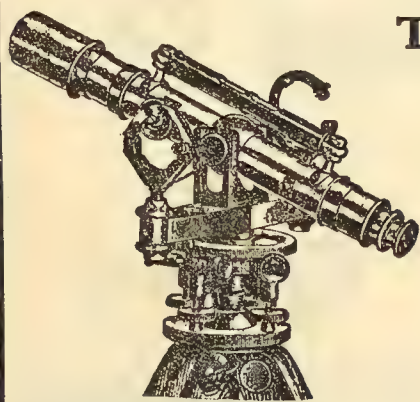
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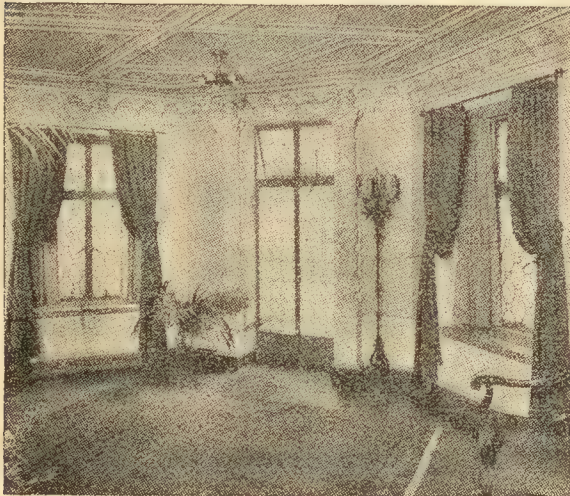
street, Philadelphia, \$6,167; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$15,544. Central High School—William J. Haggerty, 34 South Seventeenth street, Philadelphia, \$11,250. Chew and Upsal Street School—Ralph Herzog, 10 South Eighteenth street, Philadelphia, \$147,300; heating, Mechanical Equipment Co., 214 South Twelfth street, \$14,249; ventilating, Gerbrick & Kaufman, American and Filbert streets, \$1,047; electric, Walker & Kepler, 531 Chestnut street, \$10,153; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$3,783.

Garage (alts.), \$2,200. 3906-08 Mt. Vernon street, Philadelphia. Contract awarded J. G. T. Miller, 3136 North Taylor street. Architect, private plans. Owners, Modern Laundry Co., 4089 Market street, Philadelphia. General alterations.

Tank Support, \$2,000. 4618 Regent street, Philadelphia. Contract awarded The Austin Co., 1220 Jefferson Building. Architect, private plans. Owners, Service Laundry Co., 4618 Regent street, Philadelphia.

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Garage (alts. and add.), \$6,800. 1201 West Clymer street, Philadelphia. Contract awarded H. A. Hofmaier, 7542 Doreas street, Philadelphia. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Owner, H. Schuerer, 8210 Fairview road, Philadelphia. Brick, 1 story, 18x38 feet, cement work, electric work.

Garage, \$3,400. 5009 North Fairhill street, Philadelphia. Contract awarded George C. Good, 5649 North Mascher street. Architect, private plans. Owner, Fred Mastrina, 5032 Fairhill street, Philadelphia. Brick, 1 story, 18x82 feet.

Residence (alt.), \$4,000. 807 East Allegheny avenue, Philadelphia. Contract awarded Daniel J. Gereke, 4314 Disston street, Philadelphia. Owner, H. L. Hanson, 821 East Allegheny avenue, Philadelphia. General alterations.

Residence, \$10,850. West side Golf road, South City avenue, Philadelphia. Contract awarded Gennero Olivieri, 814 Fillmore street. Owner, Edward Davis, 808 North American Building, Philadelphia. Architect, private plans. Brick, 3 stories, 53 feet 10 inches x 30 feet 4 inches.

Miscellaneous Road Work, Philadelphia. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, City Hall Annex, Philadelphia. Passyunk, Buist avenue to Seventy-third street, Philadelphia, Municipal Paving Co., Second and Wingohocking streets, Philadelphia, \$6,490.50. Rising Sun avenue, Hutchinson to Venango street, Municipal Paving Co., Second and Wingohocking streets, Philadelphia, \$2,591.05. Rounfort, Devon to Boyer street, Philadelphia, Mack Paving Co., Nicetown Lane and C street, Philadelphia, \$8,686. Wingohocking street, from Bodine to American, Municipal Paving Co., Second and Wingohocking streets, \$2,395.85. Dauphin, Second street to Mascher, Montgomery Paving Co., Harrison Building, Philadelphia, \$9,243. Fourth street, from Germantown to Thompson street, Montgomery Paving Co., Harrison Building, Philadelphia, \$19,480.75. Fourth street, Hewson to a point 100 feet North, Montgomery Paving Co., Harrison Building, Philadelphia, \$1,996. Dupont street, High to Smick, Municipal Paving Co., Second and Wingohocking streets, Philadelphia, \$5,036.50. Sixth street, Sedgley to Connecting Railway, Ninth and Huntingdon streets intersection. Municipal Paving Co., Second and Wingohocking streets, \$4,114.09. Asphalt Resurfacing by the Heater Method—Group No. 24, Barber Asphalt Co., 1600 Arch street, \$37,885.50. Group No. 25, Municipal Paving Co., Second and Wingohocking streets, \$33,870. Group No. 27, Barber Asphalt Co.,

1600 Arch street, Philadelphia, \$29,827. Group No. 28, Eastern Asphalt Co., Pennsylvania Building, \$32,984. Group No. 29, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$38,932. Group No. 30, Union Paving Co., 123 South Twenty-first street, \$30,925. Group No. 31, Eastern Asphalt Co., Pennsylvania Building, \$29,962.

Architects' Building, 115-21 South 17th street, Philadelphia. Contract awarded Wark & Co., 1608 Walnut street, Philadelphia, taking sub-bids except on plumbing, heating, electric work, structural steel and excavation. Architects, group of architects, V. D. Abel, Director, Otis Building, Philadelphia. Owner, Joseph J. Greenburg, Fidelity Building, Philadelphia. Brick limestone, steel, 22 stories and basement, 65x96 feet, slag roof, concrete floors, hollow tile, elevators, steam heat, metal lath, electric light, tile work, hollid steel sash, ornamental iron work.

Office and Garage Building, 1616-26 Walnut street, Philadelphia. Contract awarded Wark & Co., 1606 Walnut street, Philadelphia, who is taking sub-bids, due September 26th, on all lines except plumbing, heating, electric, excavating and structural steel. Architects, Tilden, Register & Pepper, 1608 Walnut street, Philadelphia. Owners, Monarch Realty Co., Fidelity-Philadelphia Building, Philadelphia. Brick, limestone, steel 23 stories and basement, 120x150 feet, slag roof, concrete and cement floors, hollow tile, elevators, caulking, steam heat, metal lath, tile and marble work, rolled steel sash, ornamental iron work.

Pennsylvania Construction News

Laboratory Building, Easton, Pa. Preliminary plans drawn. Work contemplated. Architects, Lackey & Hettle, Camden, N. J. Owners, Binney & Smith, Easton, Pa.

Paving, Swamp Pike, Norristown, Pa. Contract awarded Wellington R. Wolfinger, Norristown Pa. Owners, Borough of Norristown, Pa. 10,360 feet highway on road between Fagleysville and New Hanover, Pa.

Sewer (reinforced pipe), Shisler Tract, Upper Darby, Pa. Owner taking bids, due Octobes 1st, 8 P. M. Engineer, A. F. Damon, Jr., Sharon Hill, Pa. Owners, Commissioners of Upper Darby, T. C. Kelly, Secretary, Upper Darby, Pa.

Mill (add.), Quakertown, Bucks County, Pa. Owner taking bids, due as soon as possible. Architect, James Rapp, Richland Town, Bucks County, Pa. Owner, Tohickon Hosiery Co., Quakertown, Pa. Brick steel, one story, 68x

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135 feet, iron stairs, rolled steel sash, elevators.

Oriole Home, Fleetwood, Pa. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Fleetwood Orioles, Fleetwood, Pa. Brick, 2 stories and basement.

Church School, Hulmeville, Bucks County, Pa. Plans in progress. Architect, A. Oscar Martin, Doylestown, Pa. Owner, name withheld. Brick, 1 story, 68x61 feet, built-up roof, pine and concrete floors, steam heat, electric light.

Tuberculosis Hospital, Markhen and Cheyney roads, Concord Township, Delaware County, Pa. Ready for bids in one month. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, H. M. Birney, Delaware County, Pa. Stone, 2, 3, 4 stories, accommodate 100 adults and 50 children.

County Home (Kitchen and Dining Building), Lima, Delaware County, Pa. Ready for bids in one week. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Home, care of James J. Skelly, Director, Media, Pa.

Grade School, Rockledge, Pa. Plans will be ready for bidders in one week. Bids due October 7th. Architects, Druckenmiller & Williams, 112 South Sixteenth street, Philadelphia. Owners, Abington Township School Board, J. Gilbert, North Glenside, Pa. Brick, limestone, 1 story, 56x156 feet, slate roof, warm air heat.

Hotel (alts. and add.), \$55,000. Lititz, Pa. Sketches in progress. Architect, Harry Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, The Hockenberry System, Inc., 200 North Third street, Harrisburg, Pa. Brick, 3 stories.

Grade School (add.), Royersford, Pa. Ready for bids next week. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford School Board, Mrs. M. Latshow, Secretary, Royersford, Pa. Brick, 1 story, 6 rooms, built-up roof, pine floors, heating extensions, electric light.

Residence, Lancaster, Pa. Ready for bids the end of week. Architect, Malvern R. Evans, 10 South Queen street, Lancaster, Pa. Owner, D. W. Ranck, care of architect, 431 West Orange street, Lancaster, Pa. Stone, 2½ stories, 32x50 feet, slate roof, hardwood floors, electric light, tile work.

Professional Arts Building, Reading, Pa. Preliminary plans in progress. Too early for details. Architect, Fred Muhlenberg, Ganster Building, Reading, Pa. Owner, care of architect. Limestone, buff brick, steel, 9 stories, 30x135 feet, slag roof, concrete floors.

Church (alts. and add.), Tuckerton, Pa. Architect taking bids due September 20th. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Hinnershitz Union Church, Rev. Keisler, Reading, Pa. Brick, 1 story, 2 wings, slate roof, composition floors, general alterations, steam heat, electric light.

Almshouse (alts. and add.), Shillington, Pa. Plans in progress. Architect, Alexander F. Smith, 811A Penn street, Reading, Pa. Owners, Berks County Board of Directors of the Poor District, Court House, Reading, Pa.

House (alts. and add.), River Drive, Harrisburg, Pa. Owner subletting. Architect, B. E. Starr, 7A South Second street, Harrisburg, Pa. Owner, Harper Spong, 2345 North Second street, Harrisburg, Pa. Frame and brick, 2 stories, irregular in size, shingle roof, hardwood floors, vapor heat, electric light, tile work.

Club (add.), Reading, Pa. Architect taking bids due September 24th. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Wyomissing Club, care of architect. Brick, steel, 3 stories, 40x50 feet, 52x40 feet, slate roof, electric light, hardwood floors.

Women's Building, Broad Meadow Farms, Birmingham and Thornbury Townships, Delaware County, Pa. Owners taking revised bids due October 8th, 10 A. M., opened 11 A. M. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, George T. Wades, Media, Pa. Stone, limestone, steel, 2½ stories and basement, 56x32 feet, slate roof, cement floors, metal lath, rolled steel sash, kalamein doors (plumbing, heating, electric separate), bond, excavation, reinforced concrete, fireproof, iron work, interlocking gratings, canvas roof, linoleum floors, hardware, painting, glazing.

Residence and Garage, Woodbine avenue and Bryn Mawr avenue, Merion, Pa. Architect taking bids due September 21st at noon. Architect, Robert Rhodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Dr. T. Grier Miller, 110 South Twentieth street, Philadelphia. Stone, steel, 2½ stories and basement, 62x27 feet, wing 78x31 feet, bond, excavation, flagstone, bluestone, cast stone, limestone, Kerner incinerator, brick work, tile work, linoleum floors, Zenithern floors, cement floors, reinforced concrete work, iron work, iron stairs, copper work, slate roof, shingle roof, carpentry and mill work, oak floors, painting, glazing, plumbing, brass pipe, vapor heat, electric work, building paper (allowance for hardware).

Farm Show Building, Harrisburg, Pa. Ready for bids on revised plans in 15 days. Architects, Lawrie & Green, Third and Foster streets, Harrisburg, Pa. Owners, State of Pennsylvania, Department of Property and

Supplies, Frank St. Clair, Jr., Chief Engineer, Harrisburg, Pa. Reinforced concrete, brick, steel, 1 story, mezzanine and basement, 676x788 feet.

Country Club, Reading, Pa. Architect will take bids on Monday. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading County Club, Philadelphia road, Reading, Pa. Stone, 2½ stories, 160x80 feet, slate roof, tile and marble floors, steam heat, electric light, tile, marble, steel sash, sprinkler system, kitchen equipment, septic tanks, ornamental iron, brass pipe.

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Church (alts.), Third and Chestnut streets, Harrisburg, Pa. Ready for bids next week. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Salem Reformed Church, care of architect. New basement kitchen and kitchen equipment.

Gymnasium and Swimming Pool, Academy Manor, Harrisburg, Pa. Ready for bids first of next week. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Harrisburg Academy, Dr. Brown, 2900 North Second street, Harrisburg, Pa. Brick, steel, 2 stories, 135x64 feet, slate roof, maple floors, roof ventilators, vapor heat, electric light, tile, marble, iron stairs, brass pipe.

Freight Warehouse, Second and Mulberry streets, Harrisburg, Pa. Owners taking bids due September 20th. Engineer, W. Cookman, Pennsylvania Railroad, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Brick, reinforced concrete, steel, 6 stories and basement, steam heat, electric light, slag and composition roof, concrete or gypsum roof deck, concrete floors, elevators, roof ventilators, architectural terra cotta, rolled steel and hollow metal sash, rolled steel skylights, rolled steel and kalamein doors, ornamental iron work, demolition, cement and concrete work (integral and membrane), waterproofing, floor hardener, sheet metal work, fire doors (sliding), carpentry, hardware, painting, glazing, plumbing, sprinklers, Peele freight elevator doors.

Garage, Remington road, Wynnewood, Pa. Architects taking bids due September 20th, 4 P. M. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, Charles E. Hires, Jr., Wynnewood, Pa. Stone

and steel, 2 stories and basement, 60x21 feet, hot water heat, shingle roof, electric light, metal lath, tile work, bond, steel casement windows, ornamental iron work, excavation, cement and oak floors.

Church, Scranton, Pa. Architect taking bids. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, St. Peter's Lutheran Church, care of architect. Brick, stone, steel, 1 story and basement, 37x105 feet, 30x70 feet, steam heat, electric light, tile, marble, iron work, shingle roof, architectural terra cotta or cast stone.

Club House (alts. and add.), Reading, Pa. Architect taking bids due September 23rd. Architect, Fred Muhlenberg, Ganster Building, Reading, Pa. Owners, Berkshire Country Club, care of architect. Steel, stucco, cinder block, 1 story, 2 wings, 30x40 feet, slate roof, asphalt tile floors, vapor vacuum heat, electric light, tile and marble work, rolled steel sash.

Residence, Gulph road, Bryn Mawr, Pa. Architect taking preliminary bids due as soon as possible. Architect, R. L. Colton, 1520 Locust street, Philadelphia. Owner, J. Harkey Reiter, care of architect. Frame, 2½ stories, 25x53 feet, shingle roof, plumbing, hot water heat, electric light, tile work.

Cigar Factory, York, Pa. Engineers taking bids and sub-bids. Engineers, Haupt & Co., 901 Walnut street, Philadelphia. Owners, Borrows Co., York, Pa.

Service Station, North Glenside, Pa. Architect will take revised bids in a few days. Architect, Edwyn Rorke, Glenside, Pa. Owner, Al. Robinson, North Glenside, Pa. Brick, 1 story, T shape, 24x60 feet, 24x50 feet.

Miscellaneous Equipment, Upper Darby, Pa. Owners taking bids due October 8th, 8 P. M.

Certified check, \$200. Owners, Upper Darby Commissioners, T. C. Kelly, Upper Darby, Pa. Furnish and erect 3 signals, 3 posts with pedestals, 8 feet, 4 trafficators, 1 control unit, manual controller, complete with conductor mounting, signs for system, 308 4-inch metal markers, 650 feet cable, cement, sand and gravel about 6 cubic feet, 1 meter box, wiring and supplies.

Fence, Linwood Grammar School, Linwood, Pa. Owners taking bids due October 2nd, 8 P. M. Owners, Lower Chichester School District, Raymond C. Martin, Box 161, Linwood, Pa. Approximately 340 feet steel chain link fence, 6 feet high over all, 4 corner posts to be set in concrete.

Store (alts.), Cedar and Mills roads, Bristol, Pa. Owners taking bids due as soon as possible. Owners, Gallagher & Gallagher, on premises. Architect, H. A. McGrath, Langhorne, Pa. Brick, limestone, vitrolite, mill work, hardwood floors, ornamental plaster, reflectors, tile work.

Service Station, North Glenside, Pa. Architect taking revised bids due September 20th. Architect, Edwyn Rorke, Glenside, Pa. Owner, Al. Robinson, North Glenside, Pa. Brick, 1 story, T shape, 24x60 feet, 24x50 feet, tile roof, cement and maple floors, plate glass, overhead doors, electric light, electric fan, unit heat.

Grade and High School, Womelsdorf, Pa. All bids rejected, will not go ahead until spring. Architect, W. M. High, 230 North Sixth street, Reading, Pa. Owners, Womelsdorf School District, Dr. L. J. Livingood, Principal, Womelsdorf, Pa. Brick, steel, 2 stories and basement, 111x95 feet.

Bridges (3), Minster Creek, near Swamp Pike, New Hanover Township. No. 166, over Swamp Creek, Fagleysville, Hanover Township. No. 74, over Wissahickon Creek, near North Wales, Upper Gwynedd Township. Project approved. Plans in progress. Owners will soon take bids. Architect, Warren G. Cressman, Norristown, Pa. Owners, Montgomery County Commissioners, Norristown, Pa.

School Building, Aldan, Pa. Low bidders. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Board of Education, Aldan, Pa., A. C. Nullin, Secretary. General, J. H. Hutt, 5919 Spruce street, Philadelphia; Manor Construction Co., Upper Darby, Pa. Heating and plumbing, Joseph Von Culin, Aldan, Pa.

Residence, Chestnut Hill, Pa. Architect taking bids due September 23rd at noon. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Harold R. Shirley, 1012 Packard Building, Philadelphia. Stone, 2½ stories, 44x70 feet, shingle roof, hardwood floors, tile work, electric light.

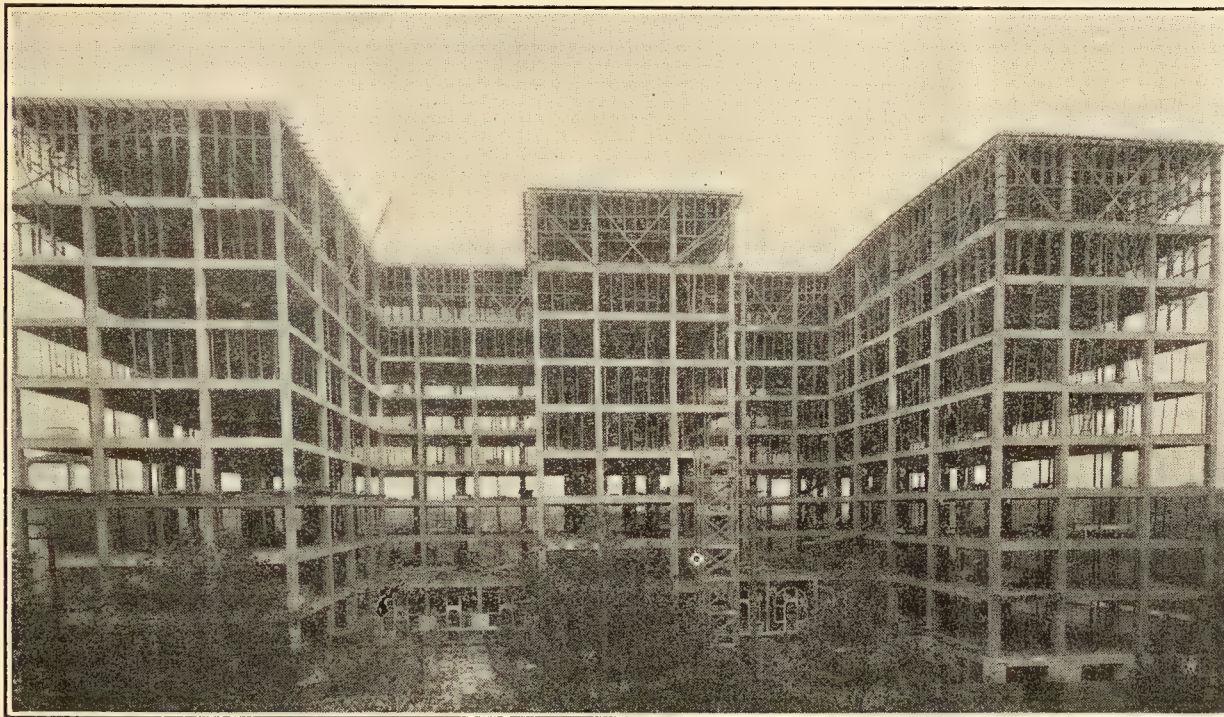
Reservoir and Pumping Station, Crow Creek, Abrams, Pa. Owners taking bids due September 21st. Architect, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Brick, concrete, 1 story and basement, 16x20 feet, valve pit, 8x15 feet, excavation, bond, concrete and cement work, steel and iron work, cinder concrete block, asbestos built-up roof, sheet metal work, carpentry and mill work, painting.

Residence and Garage (alts. and add.), Downingtown, Pa. Architect taking bids due September 23rd. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, William H. Eades, Downingtown, Pa. Stone, 2½ stories and basement, 45x24 feet, wing 60x28 feet, tile roof, shingle roof, bond, excavating, grading, flagstone, brick work, concrete and cement work, iron and steel, steel sash, metal lath, plastering, carpentry and mill work, oak and pine floors, painting, glazing, linoleum floors, tile work, plumbing, sewage disposal system, hot water heat, electric work.

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Church and Sunday School, Bangor, Pa. Architect taking revised bids on heating and plumbing due as soon as possible. Architect, A. N. Dobbins, 1718 Cherry street, Philadelphia. Owners, First Methodist Episcopal Church, Rev. Charles Howell, Bangor, Pa.

Road Work, Pennsylvania. Owners taking bids due September 26th at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Harrisburg, Pa.

Allegheny and Westmoreland Counties, R-330, Sec. 1, R-288, Sec. 1, R-181, Sec. A, 4-118, Sec. 5, R-288, Sec. 4, Forward, Elizabeth and Rostraver Townships, 4,889 feet. One course reinforced concrete.

Cameron County, R-105, Sec. 5, Gibson and Grove Townships, 11,455 feet. One course reinforced concrete.

Chester County, R-541, Highland and East Fallowfield Townships, 31,225 feet. Grading and drainage.

Clearfield County, R-401, Sec. 1, Gulich and Woodward Townships, Houtzdale Borough, 13,249 feet. One course reinforced concrete.

Indiana County, R-434, Sec. 1-A, Blacklick Township, 8,337 feet. One course reinforced concrete.

Lackawanna County, R-615, Spur, Sec. 2, Scott and Greenfield Townships, 29,341 feet. One course reinforced concrete.

Luzerne County, R-4, Sec. 7-A, Plymouth Township, 7,497 feet. One course reinforced concrete, 3,350 feet grading and drainage.

McKean County, A-5897, Eldred Township, 9,318 feet. One course reinforced concrete, 527 feet grading and drainage.

Northampton County, R-517, A3909-6733, Upper Mt. Bethel Township, Portland Borough, 9,153 feet. One course reinforced concrete.

Perry County, R-191, Tuscarora Township, 27,750 feet. Bituminous surface treated macadam surface course.

Crawford County, Vernon Township, R-82. Two-span reinforced concrete bridge, 30-foot span, 5-foot sidewalk pavement, one course reinforced concrete.

Fulton County, Belfast Township, Route 38, Sec. 3-A. Construction of 2-span reinforced concrete beam bridge, 45-foot span.

Washington County, Union and Carroll Townships, Route 247. Construction of two-span reinforced concrete beam bridge, 45-foot span, 7-foot roadway.

Owners taking bids due September 27th at 10 A. M.

Bedford County, R-119, Sec. R-2, Bedford Township, 5,708 feet. One course reinforced concrete, 500 feet grading and drainage.

Carbon County, R-163, Sec. 3, Lowe, Towamensing and Franklin Townships, Parryville Borough, 9,479 feet. One course reinforced concrete, 140 feet grading and drainage.

Centre County, R-404, Sec. 1, Ferguson and Patton, 31,009 feet. One course reinforced concrete.

Clearfield County, R-276, Sec. 3, Ramey Borough, Bigler Township, 10,184 feet. One course reinforced concrete.

Crawford County, R-294, Sec. 2, Wayne Township, 13,960 feet. One course reinforced concrete, 950 feet grading and drainage.

Indiana County, R-573, Sec. 1, A-6781, Banks Township, Glen Campbell Borough, 10,560 feet. One course reinforced concrete, 1,587 feet grading and drainage.

Lackawanna County, R-332-648, A-6302, Benton Township, 21,006 feet. One course reinforced concrete.

Montgomery County, R-198, Lower Moreland Township, 6,868 feet. One course reinforced concrete.

Northampton County, R-165, Sec. 4, Forks and Lower Mt. Bethel Township, 28,717 feet. One course reinforced concrete, 200 feet grading and drainage.

Schuylkill County, R-105, Rush and Kline

Townships, 1,527 feet. One course reinforced concrete.

Wayne County, R-171, Sec. 2, Lake and Cherry Ridge, 32,653 feet. One course reinforced concrete, 838 feet grading and drainage.

York County, R-332, Sec. B, Lower Windsor and Chanceford Townships, 17,300 feet. Grading and drainage.

Allegheny County, Patton Township, Route M-187, Sec. No. 2-C. Construction of 1-span reinforced concrete beam bridge.

Pennsylvania Contracts Awarded

Residence and Garage, Wayne, Pa. Contract awarded F. S. Hammon, Brookline, Pa. Architect, Harold Edw. Williams, Drexel Hill, Pa. Owner, F. B. Payne, care of Bell Telephone Co., 17th and Arch streets, Philadelphia, Pa. Stone, brick, 2½ stories, wood shingle roof, hardwood floors, electric light, tile work.

Bank (alts. and add.), York, Pa. Contract awarded to A. B. Seifert, 702 West Poplar street, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, York Trust Company, J. Lewis, President, 21 East Market street, York, Pa. Brick, 3 stories, 68x63 feet, terrazzo and linoleum floors, electric light, elevator, metal window guards, bronze, ornamental iron work, granite, steel skylights, tile and marble work, terrazzo work, heating extension.

Road Work, Pennsylvania. Contracts awarded.

Juniata County, R-193, Beale and Milford Townships, Mifflin Borough. Bituminous surface macadam, one bridge. Lord & Quigley,

Millerstown, Pa., \$200,198.

Elk County, R-99, Spur, Jay Township. One course reinforced concrete. Joseph Wiesner & Son, St. Mary's, Pa., \$217,008.11.

Westmoreland County, R-302, Sec. 11, Cook. One course reinforced concrete. Matthews Brothers Construction Co., Dormont, Pa., \$194,457.

Potter County, R-236, Sec. 1, Sharon Township. One course reinforced concrete. Max E. Butler, Duke Centre, Pa., \$109,343.

Office Building, Eddystone, Pa. Contract awarded Wark & Co., 1600 Walnut st., Philadelphia. Architects, Simon & Simon, Fidelity-Philadelphia Trust Building, Philadelphia. Owners, General Steel Castings Co., R. P. Lamont, President; A. F. Bladgon, General Superintendent, Eddystone, Pa. Brick, reinforced concrete, granite, steel, 2 stories and basement, 176x47 feet, 47x84 feet, concrete roof deck, cement floors, hollow tile, safety treads, roof ventilators, metal weather strip, caulking, waterproofing and dampproofing, steam heat, electric light, metal lath, marble and terrazzo work, tin-covered and kalamein doors, bond, iron stairs, ornamental iron work, brass pipe, wrought iron pipe, floor hardener, excavation, limestone, gypsum block, dumb waiters, steel sash, steel basement, built-up roof, metal toilet partitions, steel shelving, composition floors, linoleum, painting, glazing, hardware, cork insulation, plumbing, kitchen equipment.

Inn (alts. and add.), Stores (2), Coatesville, Pa. Contract awarded Charles S. Ban- nett, 4700 Springfield ave., Phila. Architect, C. W. Brazier, Crozer Building, Chester, Pa. Owners, Coach and Four Inn, Stewart Huston, Coatesville, Pa. Brick, steel, general alterations and addition to present building, 4-story addition, 41x75 feet.

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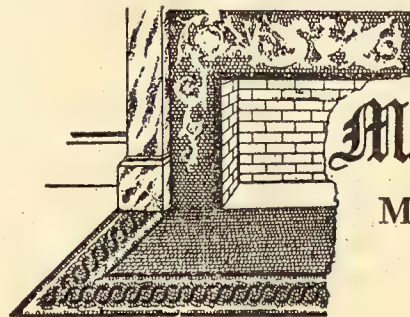
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Duncott School, \$35,000. Schuylkill County, Pa. Contract awarded Charles Quandt, Minersville, Pa. Architect, Frank X. Reilly, 112 South Center street, Pottsville, Pa. Owners, Cass Township School Board, James Bambrick, Heckscherville, Pa. Frame, 1 story, 6 rooms and assembly hall, 100x100 feet, steam heat, asbestos shingle and Carey roof.

Grade School, Fairview, Pa. Contract awarded to Irvin E. Roth, 111 Perkasié avenue, West Lawn, Berks County, Pa. Architect, H. B. Patterson, Gougerelsville, Pa. Owners, Board of School Directors of Crumru Township, Berks County, Pa. Brick, steel, 2 stories and basement.

Garage, \$4,000. Mather and Glenside avenues, Wyncote, Pa. Contract awarded F. K. Worley Construction Co., Wesley Building, Philadelphia. Architect, private plans. Owner, W. G. Borton, Wyncote, Pa. Hollow tile, stucco, 2 stories and basement, 26x22 feet, shingle roof, cement floors, hot water heat, electric light, ornamental iron work.

Road Work, Pennsylvania. Owners, Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa. Delaware County, R-225, Spur A, Spur B, Marple Township. One course reinforced concrete, awarded to Dalton Brothers, Paoli, Pa., \$44,238.47.

Stables (2), West Chester, Pa. Contract awarded Smedley & Hoopes, West Chester, Pa. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, J. K. Newman, care of architect. Frame, 1 story, 114x27 feet, asbestos shingle roof, John Mansville roof, concrete foundations, yellow pine floors, galvanized iron work.

Building (alts. and add.), Jenkintown, Pa. Contract awarded Otto Eggert, Elkins Park, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Henry Austermuhle, Jenkintown, Pa. Front addition, stone, 1 story, 33x20 feet, slag roof, tile and concrete floors, rear addition, brick, 2 stories, 20x30 feet, slag roof, cement floors, heating and lighting extension.

College Building, Chambersburg, Pa. Contract awarded Quigley Haffer, Chambersburg, Pa. Architects, Ludlow & Peabody, 101 Park avenue, New York City. Owners, Wilson College, Chambersburg, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania State Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa. Contract awarded. Allegheny County, R-70, Sec. 4B1, A-3758, A-4358, Harmer Township. One course reinforced concrete, one course reinforced concrete and vitrified brick pavement. Rinehart Brothers, East Liverpool, Ohio, \$32,479.

New Jersey Construction News

Fixed Bridge, \$25,000, across Upper Canal, Deep Water, N. J. Project approved. Plans in progress. Engineer, H. C. Keasby, Salem, N. J. Owners, Salem County Board of Freeholders, Salem, N. J.

Pumping Station and Filtration Works, \$2,000,000. May's Landing, N. J. Project recommended. Work contemplated. Owners, State

Water Policy Commission, Mr. M. R. R. Shererd, Trenton, N. J., County Engineer. 60-inch pipe line to drainage area of Absecon Creek, etc.

Nurses' Home (add.), \$100,000. Lakeland, N. J. Plans in progress. Architect, Arnold H. Moses, Camden, N. J. Owners, Camden County Board of Freeholders, Camden, N. J.

Monument, Gloucester Park, N. J. Plans will be ready for bids September 16th. Bids due October 3rd. Architects, Lackey & Hettle, Camden, N. J. Owners, Camden Park Commissioners, care of J. C. Remington, Camden, N. J. To be erected of old brick and limestone, bronze tablets. Also iron stairways construction in Gloucester recreation buildings. (Note architect.)

Laboratory, Salem, N. J. Work contemplated. Owners, Salem County Memorial Hospital, W. H. Phew, President of Hospital Association and Auxiliary, Salem, N. J.

Factory (add.), \$50,000. Paulsboro, N. J. Architect not selected. Owners, N. Snellenburg & Co., Southeast Corner Twelfth and Market streets, Philadelphia. Brick, steel, 2 stories and basement. Work contemplated.

Rectory, Maple Shade, N. J. Held up until spring, 1930. Architect, Emil G. Perot, 1211 Arch street, Philadelphia. Owners, Church of Our Lady of Perpetual Help, Maple Shade, N. J.

Airport, Amatol, N. J. (near Hammonton). Work contemplated. Owners, General Aero Corporation of America, Amatol, N. J.

Dormitories (4), Hillsdale, N. J. Owners taking bids due September 25th. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Residence (alts. and add.), Frenchtown, N. J. Plans in progress. Architect, William W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, George Eddy, on premises. Frame, 2 stories, 18x25 feet, 19x32 feet, slate roof, hardwood floors, vapor heat, electric light, tile work.

Power House, New Jersey State Hospital, Hillsdale, N. J. Revised plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, W. J. Ellis, Commissioner, State House, Trenton, N. J. Reinforced concrete, brick, steel, limestone, 1 story, 84x52 feet, slag roof, cement floors, caulking, rolled steel sash, bond, ornamental iron work, area gratings.

Road Work. Owners taking bids due September 30th at noon (Standard Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route No. 47, Sec. No. 4, Head of River to Tuckahoe, Cape May County. Length 3.4 miles.

Bridges, Route No. 29, Sec. 4 and 9. Construction of 4 bridges on State Highway, Route No. 29, Sec. 4 and 9, between North Plainfield and Mountainside, Union and Somerset Counties. Deposit, \$10. Certified check, 10 per cent.

Concrete Sidewalks, Street Paving, Pensauken, N. J. Low bidder: Lafferty Brothers, Collingswood, N. J., \$7,875. Contract to be awarded at next meeting of the Committee. Engineers, Remington, Vosbury & Goff, Camden, N. J. Owners, Township of Pensauken, R. V. Peabody, Pensauken, N. J.

New Jersey Contracts Awarded

Power House, State Colony for Feeble Minded Males, Woodbine, N. J. Contract awarded Camden Construction Co., 515 Lawrence street, Camden, N. J., \$27,950. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, 1 story and basement, 96x46 feet, slate roof, wood deck, gypsum cement floors, ornamental iron work, hollow metal doors, bond.

Dormitory, Glassboro, N. J. Contracts awarded. Architects, Guilbert & Betelle, Newark, N. J. Owners, State Normal School, care of State Board of Education, Trenton, N. J. Brick, semi-fireproof, 3 stories and basement, 167x45 feet, slag roof, wood floors, heating, lighting, ventilating, plumbing. Contract awarded M. C. Pennell, Merchantville, N. J., \$76,400. Heating, Harry Knecht, West Collingswood, N. J., \$6,595. Plumbing, Harry Knecht, West Collingswood, N. J., \$9,275. Electric, W. E. Snell, 226 Elmer street, Vineland, N. J.

Miscellaneous Construction News

Bank Building (alts. and add.), Wilmington, Del. Architect taking bids. Architect, W. E. Hauggard, 185 Madison avenue, New York City. Owners, Industrial Trust Co., Tenth and Shipley streets, Wilmington, Del. Brick, limestone, steel, 8 stories add. and store 32x78 feet, slag roof, cement and concrete floors.

Club House, 210 West Sixth street, Wilmington, Del. Owners taking bids due as soon as possible. Architects, Gleason & Mulrooney, 250 South Broad street, Philadelphia. Owners, Fraternal Order of Eagles, William Hayes, Secretary, Wilmington, Del. General alterations (heating, plumbing, ventilating separate bids).

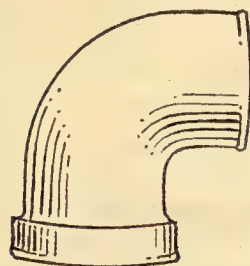
Grade and High School, New Castle, Del. Owners taking bids due September 19th, 2 P. M. (Daylight Saving Time). Architects, Guilbert & Betelle, Eleventh and King streets, Wilmington, Del. Owners, School Building Commission for the New Castle School District, State House, Dover, Del.

Nurses' Home, Brandywine, Del. Ready for bids next week. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Brandywine Sanatorium, Brandywine, Del. Brick, steel, 3 stories, 56x35 feet, asbestos shingle roof, pine and hardwood floors, electric light.

Residence, Wawasa, Wilmington, Del. Owner will take bids. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, Charles C. Keedy, DuPont Building, Wilmington, Del. Cinder block, stucco, 2 stories, 40x50 feet, tile roof, hardwood floors, hot water heat, electric light, oil burners.

School (grade) (add.), Richardson, Del. Plans in progress. Ready for bids in a week. Architects, Guilbert & Betelle, Chamber of Commerce, Newark, N. J. Owners, Board of Education, Delaware School Foundation, A. J. Taylor, Vice-President, DuPont Building, Wilmington, Del. Brick, steel.

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Residence, Bridgeville, Del. Ready for bids next week. Architect, C. R. Hope, DuPont Bldg., Wilmington, Del. Owner, R. H. Cannon, Bridgeville, Del. Frame, 2½ stories, 30x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Office and Bank, Seventh and Orange streets, Wilmington, Del. Plans in progress. Architect, Oscar Lowinson, 150 Fifth avenue, New York City. Owner, name withheld. Fire-proof, 15 stories, 91x64 feet 3 inches.

Miscellaneous Contracts Awarded

Residence (alts. and add.), Wilmington, Del. Contract awarded W. D. Haddock Construction Co., Wilmington, Del. Heating to H. S. Mellon, Wilmington, Del. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Colonel W. C. Spruance, Wilmington, Del. New porch, changing of heat.

Residence, Westover Hills, Wilmington, Del. Contract awarded W. D. Haddock & Co., 804 Orange street, Wilmington, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, W. P. Regestein, 716 Coverdale road, Wilmington, Del. Stone, 3 stories, 70x50 feet, slate roof, hardwood floors, electric light, hot water heat, oil burners, tile work.

Laundry Building, Farmhurst, Del. Contract awarded Joyce & Kerrigan, 1021 West Fourth street, Wilmington, Del. Engineer, Robert P. Schoenijan, Industrial Trust Building, Wilmington, Del. Owners, Delaware State Hospital, Farmhurst, Del. Brick, cement floors, steam heat, electric light.

CONGRESS GROUP TO STUDY ELECTRIFICATION OF BUILDINGS

*John T. Windrim, Architect, Will Head
Industry Conference*

At the request of the electrical industry of Philadelphia the Building Congress is establishing the third of its industry conferences for an important branch of the building business—electrification. The purpose of the group will be to analyze the requirements for adequate servicing and wiring of all manner of buildings looking toward the establishment of recommendations for good local practice in this important part of the building field.

John T. Windrim, widely known architect, is the Chairman of the Conference Group now being formed for this purpose and George R. Conover, Managing Director of the Electric Club of Philadelphia, has been appointed Secretary to the Conference Group by the President of the Congress. The group will begin functioning shortly with a series of meetings to review the material already in hand relative to adequate wiring specifications for various types of buildings, including residential.

The various organizations which are collaborating in the selection of representative and interested persons to make up

the Conference Group are: Philadelphia Chapter, American Institute of Architects; Local Sections of American Institute of Electrical Engineers, and the Illuminating Engineering Society; The Electric Club, and the Building Superintendents' Association of this City. Representatives have also been appointed to the group by the President of the Congress.
H. J. B.

ARCHITECTURAL YEAR BOOK TO BE DEDICATED TO MILTON B. MEDARY

Announcement is made by the Joint Exhibition Board that the Year Book now in preparation by the American Institute of Architects, Philadelphia Chapter and the T-Square Club will be dedicated to the memory of Milton B. Medary. This will be the Thirty-Second Annual Edition of this Book which is published each year in connection with the Exhibition of Architecture, Landscape Architecture and Allied Arts. In addition to being profusely illustrated with examples of public, ecclesiastic, academic and domestic work to be shown in the Exhibition which will be held from November 1st to November 15th, in the Galleries of the Wanamaker Store—it will contain a monograph on the life and work of Mr. Medary, the distinguished architect who died at his home in Bala on August 7th.

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MAKE YOUR ENGLISH HOUSE RIGHT

*A Summary of Essentials That Will Save
Mistakes*

By K. S. KINGSLEY

Recently the so-called English style has come into its own in the small house field. It is deservedly popular because it has a very attractive and picturesque quality,

getting away from the "boxiness" of much small house design.

Along with the really good small English houses are naturally many imitations by those who do not understand the essential qualities of this most attractive style. Such designs may use quite legitimate features of English architecture but combine them in ugly ways and exaggerated forms. A few essentials of good design in this style make all the difference between success and failure.

In America, the term "English architecture" has come to mean a rather distinct style. This style that has been developed in America is derived from the cottages in all parts of England adapted to American conditions. Of course, the Georgian style is as truly English as the earlier periods of design which have more largely influenced the type of architecture we now term as "English."

One of the chief characteristics of the English style is its adaptability to the use of varied materials. The builders of the English cottages took the materials that were closest at hand and built the picturesque farm houses and town houses that have a characteristic charm.

In Southern England, they took the brick of the neighborhood, combined it with timber using brick to fill in between the heavy framing, forming what is termed "half-timber work." They used the clay tile for their roofs and on the vertical walls as shingles. In the Cotswold district, the houses were built of the native stone, that being the most available material, and the roofs were largely made of thin stone "shingles." Wood was not as plentiful in England as in America. For that reason, the wood was used largely for framing rather than as an exterior covering.

In the old half-timber work the timbers that showed were members of the actual structural frame of the exterior and it was really the skeleton of the building

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showing through. That accounts for the use of the diagonals and the curved forms. The latter were sometimes caused by the use of the sound oak from the framing of boats and ships.

Honest Use of Materials

In designing half-timber work, it is well to have pictures of some of the old work to use as guides, and also to remember that the half-timber, or its present-day imitation, should recall actual structural members.

The chief thing to remember in building houses in the English style, is that its character is derived largely from the honest use of material. By that is meant that in the English work things should always be what they seem. Simple, direct use of materials is essential if successful English houses are to be the result.

The mass of the house should be determined by its plan, and it is the irregularity of the plan of the English house that gives it its picturesqueness because the roof lines are the natural outcome of framing the roof to cover the irregular plan. On a flat wall surface, it is a mistake to fake a gable-end running from the ridge to the second-floor line at the corner. Roof lines should be actual roof lines, not fake roof lines on a flat wall.

The walls may be of any material or combination of materials, but care should be taken to see that one material is dominant; that is, that there is more of it than of others.

It is a serious mistake to break up a stucco wall with pieces of field-stone or bricks stuck in where they really serve

no purpose. The tendency to try to gain picturesqueness by sticking on a few slabs of stone at corners and windows is a mistaken one. A good builder will make sure that this error does not occur in his houses. The materials must always be used in a logical way; there is no exception to this rule in the building of English houses.

Stucco, for instance, to appear at its best in this style, must not be forced in texture. The texture should be that which is naturally derived from the hand-work of the craftsman applying it. The roughness and the ridges that occur through the sweep of the plaster's arm over its surface gives a pleasant effect. Different effects are obtained by the varying motions of the trowel in a natural way on the surface. To force the texture by putting globs of stucco on and smoothing them off, as if they were stones, is always a mistake, as is any form of exaggeration.

The roof is one of the most interesting features of English design because of its irregularity and because of the large area that one sees. As a rule, the roof should have considerable pitch. With the original English work, this was necessitated by the heavy rainfalls and the fact that thatch was used for roofs in the early days. A thatched roof naturally needed a steep pitch in order to shed water.

Variation should be in the tone, shade and depth of color of the various shingles, and these will give all the variation and "vibration" needed. Don't make the mistake of having the roof appear like a patchwork quilt as this is never good taste.

The gable-ends of English roof are usually very easy to treat. The secret is to make them just as simple as possible.

The treatment at the eaves of the English roof is also the simplest. There are

no elaborately built-up cornices, and classic mouldings are not used.

The windows in the English houses, in olden days, were small, and in the modern adaptation the small size of the panes is retained although the window surface is increased by grouping these smaller sash together.

The majority of English houses have casement windows, and as they are manufactured today, they are entirely practical even in rigorous climates. They are available both in steel and wood, and many can be supplied with small panes of leaded glass which give a true English "flavor." However, the double-hung window can be used with properly proportioned panes.

The doors are simple and straightforward, as are all the details of the English house. The batten or plank type of door is most suitable, usually with a small leaded glass window.

Although porches were unknown in the old English cottages, they can be designed for our modern houses in perfect keeping with the style.

The chimney is one of its most telling features and it therefore needs careful study in its design. As a rule, the simpler, the better; but one must be careful of its proportions. It must not appear too thin and inconsequential. A simple brick or stucco chimney with terra cotta chimney pots is always good.

The English house needs no "dolling up." Its character is due to its simplicity and directness rather than to any ornamentation, for ornamentation as such is entirely lacking on the exterior; the actual structural features—the gables, chimney, windows, doors—make the design,—or break it.

—*Building Age.*

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OLD BUILDINGS MUST BE REMODELED TO MEET COMPETITION

That the horse is as old as his teeth has long been an accepted statement; a certain school of beauty experts have been most successful in teaching women that they are only as old as the line of neck and chin, and W. E. Malm, Cleveland, Ohio, told Realtors of the National Association of Real Estate Boards in convention at Boston that office and business buildings are only as old as their elevators. Malm advised real estate doctors to feel the elevator pulse of their patients—the to-be-remodeled building—in his address on "Modernization of Business Property," given before the Property Management Division of the National Association of Real Estate Boards.

The equine of the species has to accept fate; the female of the species is told that she needn't accept fate. Mr. Malm advised that the business building has a chance for rejuvenation dependent on the

character of its tenancy, its rental rates, its rentable area and the height of the building.

Malm admitted that not only must elevators be revamped, but that the outer and inner appearance of the office building must be brought up to the standards of the new elevators. However, the undertaking must be tempered at every turn by sound judgment. "As a matter of fact, the complexion of the second floor of a building has little effect upon prospective tenants," he said, "It is my opinion that only the exceptional building can show any justification for costly improvements embracing the entire facade of a structure, as shops command high rentals due primarily to the location, while office rates are determined by the excellence of both interior and exterior treatment of the building—the efficiency of the office plans and the regularity and quality of the building services, in addition to the location.

"It is in a community which has reached the saturation point in space absorption where remodeling is really profitable. Improvement is a matter which must extend beyond the limits of the property itself and must include betterments in transportation, traffic, noise control, sanitary conditions, building regulations and other elements which have a bearing on the character of a neighborhood or district. The problem of the old building has never been more acute than it is at present, and an answer to its solution never more urgent. This condition has not resulted from any inordinate accumulation of antique structures, but is the consequence of a high tide of national prosperity which brought with it in some communities an over-supply of structures, and, on recession, left the old structures stranded on the economic sands, facing the pressure of a new competition."

Malm believes that the present simple style of architecture which is gaining acceptance for the business building will present less of a problem to the one who will eventually wish to remodel these structures, now so new that many are as yet unable to countenance the simplicity of their lines. The modern structure is bound to be especially amenable to rehabilitation. It is a difficult problem to remodel a very ornate building and a simple matter to work over a plain one. The improvements must always be in accord with the existing structure. Making a shining example of the Victorian era pleasant to the tenant of 1929, and still preserving congruity in the design of the building is no child's task.

"In any interior rehabilitation program the decorative effect usually produces the greatest volume of comment from the public, as it is the most striking visual evidence that something has been done to the building," Mr. Malm concluded.

—Builder's Weekly.

GERMAN BRICKWORK THOUGH IT IS RADICAL BOWS TO NO SUPERIOR

Brick have long been a favorite exterior material in Germany and masonry there has likewise long been a fine art. Probably nowhere else in Europe have equally striking effects in brickwork been obtained. Nor has architecture blazed more radical trails. Residence construction has not felt this so much as has the commercial and industrial field. The old ideas rather strongly prevail still with the home, but some of the most striking examples of both architecture and brickwork effects are to be found in the commercial and industrial districts.

Probably the most interesting structure in Hamburg, from an architectural viewpoint, is the recently finished Chile Building, designed with a remarkable fidelity along the lines of a monster ship. It is an office building, and to intensify the realism the various decks are represented with outside promenades on which the employees may take a noon-day stroll without the necessity of descending to the streets. These promenades extend almost the entire length of the building, from the up-thrust, clean-cut prow to the stern.

Another structure that is worth the time of anyone who chances to visit Berlin is a candy factory with such intricately woven columns of brickwork, and such a mass pattern effect, that it would seem at first glance an impossibility of accomplishment. Yet the German master masons apparently found little of difficulty in its erection as it went up with almost incredible speed, considering the extremely involved character of the brickwork.

This penchant for odd and extravagant treatment has apparently fastened itself upon most of the leaders in present-day

German architecture. Municipal buildings reflect it, which is a rather sure sign that the public has developed a liking for it. It appears in most of the more recently built semi-public buildings, the commercial clubs, the technical schools, the medical clinic and hospital buildings, and newspaper offices. When the latter surrender it is about the last word.

Most of Germany's churches are old. They are substantial brick and stone structures, but brick seems to have been as great a favorite in other centuries as it is today. The older ones are artistic despite their Gothic severity but the later ones have in many instances succumbed to the newer influence. The extremes are not so pronounced but they are there, very artistic in treatment and decidedly interesting.

But in the homes not so much of the new idea is apparent. The German conception of the home is conservative. The old traditions hold. There is still an apparent fondness for simplicity and the ideals of a bygone age. High sloping roofs afford opportunity for many of the long highly esteemed dormer windows, and pudgy little chimneys that taper as they rise still are predominant. Tiles are almost universally used of the type we know generally as Dutch.

Patternwork and unusual treatment of the columns so prevalent in residence architecture are exceptionally well done. Window treatments usually are plainly but sometimes very elaborately handled and Flemish bond is mostly preferred, possibly for the reason that of all the various bonds this makes the strongest and most durable wall. It is the most expensive to lay but for all that the long-sighted German frugality recognizes its economy in the end and employs it almost exclusively.

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well take an observation course in German outdoor masonry decoration. This is one field in which the mason again is supreme. The grounds of the detached suburban homes scattered about the larger cities are replete with unique and interesting examples of their art. Garden walls display an infinite variety of types. Mostly there is a wrought iron accompaniment that heightens the effects. Always the patternwork is unusual in design and strong in its appeal, something one long remembers.

Brick is the common material for garden walks. It is in very general use in the supporting walls of sunken gardens where there is an excellent opportunity for the mason again to display his artistry in the fashioning of odd treatments. Fountains are frequently of unusual design and execution, and the rustic bridges so dear to the American heart give way to picturesque masonry culverts that will last a century. All in all, Germany's masonry is in a class very much its own.

—*Building Economy.*

BLOWERS TO VENTILATE HOT TELEPHONE BOOTHS

Big Phone Companies Install Mechanical Ventilation in Small Stalls

List among public health improvements mechanical ventilation of telephone booths.

No longer will thousands of hapless human beings be compelled to swelter and sweat in the dinky little, air-starved stalls, according to the last word from the big telephone companies. These booths are to be individually ventilated by little blow-

er fans which change the air constantly even when the doors are closed tight. The first of these mechanically ventilated booths are to be installed in the huge Grand Terminal building in New York where thousands of phone calls come every day, it is announced.

Several efficient methods for ventilating these booths have been developed, but a Boston manufacturer has brought out one that enables the blower to drive in fresh air and carry out vitiated air without the slightest noise of a whirling motor. This system was successfully tested by the phone companies but officials decided not to put it in because they declared it would encourage long conversations over the telephone.

"Make conditions too comfortable in the booths and people will talk longer on the telephone," the phone officials said. "When people find air conditions in the booths not to their liking and sweat about it, they cut short their visits over the telephone."

But public sentiment, as usual, is winning. The phone companies are yielding. Like other big public utilities, they realize that service is the watchword of modern business and that the public must be served.

BUILDING CODES THAT ARE LOADED

During the last few months there has been a widespread effort to foist a "uniform" building code upon the cities of many states.

From a seemingly public spirited source, the building commissioners of the cities of a state, or two or more states, are invited to attend a conference, ostensibly

for the purpose of forming a state or group organization, but mainly for the purpose of formulating and adopting a uniform or "model" building code. At first thought this seems to be altogether altruistic and commendable.

Officers are elected in advance of any adoption of constitution or by-laws and the organization meeting is at once invited to select a code committee whose duty is to draft a uniform code.

At this time comes the offer of assistance from one or more engineers and self-styled "experts," who are always in attendance, and audibly so. The code of some other city is offered as a guide to the code committee's labors. The code of far-off Shreveport, La., seems to be the popular one; maybe because it was prepared with the acknowledged assistance of two engineers employed by a building material association.

The cupidity of this performance has not escaped the attention of all magazines devoted to honest construction practices, for the March 20th issue of *The American Architect* tosses a pregnant bombshell into this sorry mess.

"The makers of building codes," it says, "must first consider the community welfare as it appears in the insurance of safety and sanitation in building construction and the conservation of invested capital. This is always possible by permitting in use the maxima of the capabilities of materials limited only by recognized safe engineering practices. When this is done, a code is fair and just to all concerned."

"There is no material which is fit for universal application . . ."

"It is reprehensible, unfair and dishonest for any interest to legislate its competitors out of competitive existence, and yet this unethical practice is employed in some degree every day with the enactment of new or amended building codes. Such a condition results from ignorance and a supposed economy on the part of the communities."

"It is fair to assume that a service such as the preparation of a complete building code without cost is in reality a disservice and is intended to be such. Nothing of real value can be acquired without expense, and those approached with such a proposition should look askance at it. It is well to remember the admonition to beware of those bearing gifts—to conceal an ulterior motive—and also the fate of Troy and the wooden horse."

"There is a safe and logical way to prepare building codes. There are men of unquestioned ability and integrity—architects and engineers—who are competent to write a satisfactory code which will provide for the safety and sanitation of buildings . . ."

In other words, the *American Architect* advises that you decline to permit any



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private material interest to write your code for you, no matter how much they camouflage the effort, but instead engage competent, honest and disinterested experts to do it, and pay them what it is worth.

Which is advice that we heartily indorse.

—*Building Economy.*

VENTILATING THE RESTAURANT

Ventilation is needed in almost every enclosure where people congregate. In the first class restaurants, however, ventilation is an absolute necessity and the quality of ventilation secured can have a very direct effect upon the success or failure of the business.

Guests will not patronize the hotel or restaurant dining room which is saturated with the odors of long dead meals. Fish, onions, cabbage and a myriad of other cooking odors are extremely distasteful to the nose of the average individual. As a matter of self-protection, the restaurant owner must provide adequate ventilation.

Five Points That Interest Restaurant Owners

The following five sales arguments are those that have proved most effective in interesting restaurant owners. Other arguments will suggest themselves in special local cases but the five below are universally applicable.

1. A ventilating fan installed in the kitchen keeps out of the dining room those odors from cooking foods which are so displeasing to patrons.

2. Properly installed ventilating fans will prevent the dining room from becoming hot and stuffy during the summer season, another dollars and cents reason.

3. A ventilating fan will remove greasy fumes before they have an opportunity to settle on walls, curtains, furniture and fixtures, causing them to appear old and dirty in a very short time. Restaurant owners appreciate the importance of keeping their places of business clean and attractive looking and proper ventilation is a most important aid in doing this.

4. A ventilating fan improves conditions in kitchens so tremendously that it is much easier to keep good help.

5. A properly installed ventilating system will do away with the objections of adjoining tenants to the odors and heat from the kitchen.

In calculating the type and size of equipment to use always bear in mind that a ventilating fan too small to handle a job properly is only an aggravation. Your reputation as a ventilation expert can be established only by using every effort to sell equipment large enough to give good results.

The air in a restaurant kitchen should

be changed once every two or three minutes and in the dining room once every five to fifteen minutes.

AMERICAN ARCHITECTURE

Time was when Europe regarded the American architect with more or less derision. He was looked upon as a novice on the hunt for ideas, and was not to be considered seriously. It is no longer so.

Today Europe concedes America an architecture distinctly her own. Instead of running to extravagant creations in the fields so long peculiarly European, palaces, cathedrals and state buildings, it is of a more prosaic type, commercial and apartment.

American cities have far outstripped their European contemporaries in development and growth. American architects, in consequence, have been meeting and solving most of the modern structural problems. They have perfected a type of building Europe is copying.

London's most popular commercial districts bear an American imprint. Paris' newest apartments are fashioned along American lines. Germany and Holland are injecting American ideas into their ultra-radical apartment designs. American ideas have arrived.

Recently Russia has arranged with a New York construction company for a \$25,000,000 housing development in Moscow. And across the Pacific Tokyo fairly shouts the pre-eminence of American skill in the architectural field.

American architects may spend their vacations in Europe and pick up here and there a useful idea, but usually they straightaway Americanize and improve upon it and send it back under a new guise.

—*Building Economy.*

APPEARANCE COUNTS NOW IN PLASTERING

The old methods of throwing plaster on a wall or ceiling without the proper care and attention have given way to modern and well-defined systems that have resulted in a splendid accomplishment.

Plastering is to the home or business building what clothes are to humanity. Appearance counts, always and in everything, and people are becoming interested in improving their ways of living.

Better plastering by a recent decorative method can be done only through the use of the proper products, and among these some stand as the highest representatives in this class. One is an emulsion based on Portland cement, sand and asbestos. To say that splendid results have been obtained with this decorative plastering would be to put it mildly.

Leading builders and decorators make it a point to insist upon the best as the only logical product that can be employed

efficiently. Beauty as well as permanent improvement have been made possible with the use of this material and it is highly recommended to all those who know of the importance of better plastering to use such splendid material as one that will give everlasting satisfaction.

—*East Bay Builder.*

VENTILATING THE THEATRE

This field is most extensive, as ventilation is vital wherever people assemble in large numbers.

In most states the laws require the use of mechanical ventilation in places of this nature. The field offers an excellent opportunity for the contractor to obtain a great volume of profitable business.

This field includes theatres, auditoriums, churches, lodge rooms, dance halls, club rooms, court rooms, billiard rooms, bowling alleys, gymnasiums, etc. Each of these buildings requires a little different ventilating application, but they can all be handled by the same general rules.

A ventilating fan in the theatre is installed to provide for the comfort and the health of the patrons, but in so doing it increases the profits of the theatre owner. This is especially true in the summer time when such places as theatres, dance halls, etc., are poorly patronized on account of the stifling atmosphere in these places unless they are properly ventilated. A ventilated system properly installed will almost double the summer attendance in motion picture theatres.

Ventilation in these buildings is primarily a question of removing heat caused by crowds and dead air which is being breathed over and over. In order to accomplish this result it is necessary to watch closely the path of the air through the room ventilated.

To obtain thorough ventilation, the location of the point where the air enters the room is as important as the location of the fan. The air from the point of entrance to the fan should pass over the entire area of the room in order to sweep along with it the dead stale air and carry it to the fan.

In most of the ventilating work on these classes the Ventura Fan can be used and installed in skylights, walls or windows as is most suitable. In toilets, small cloak rooms, lavatories, locker rooms, or other isolated rooms, the Sirocco Fan with duct system should be used.

It is desirable to always install two or more fans on each job in order that one-half the system for instance can be used in the winter time when the question of removing heat is not present. If three fans are installed in a motion picture theatre, large enough to take care of the bad summer conditions, either one or two fans can be operated at other times when the weather is milder.

For the ventilation of crowded rooms under summer conditions, figure 40 cubic feet of air per minute per person in the room in the more temperate states and 60 cubic feet per minute per person in the southern or warmer states.

From this it will be seen that the determination of the size of fan to use is very simple. Simply multiply the number of people in the room by 40 or 60 which gives the C. F. M. capacity of the fan required. Pick the fan from the price book which will give this rating.

The location of the fan is the next important step. Fans should be placed eight feet above the floor if convenient, but it is not important that they be placed at any particular height as long as the path of the air through the room passes directly over the occupants. When there is smoking in the room the fan should be installed as high as possible.

In the small and medium sized motion picture theatre, an ideal location for the fan is back of the stage. This arrangement assures that the doors are in the opposite end. All side openings are kept closed and the air is given a straight sweep the entire length of the building.

CONSTRUCTION'S PROSPECTS FOR THE FUTURE

Because important construction has been so rationally developed; because it is both the forerunner and the result of industrial, commercial, scientific and mechanical progress, and because it functions only on a basis of actual and definite conditions, it is not difficult, after reviewing the manner and progress of past developments, to consider governing principles of the future, and forecast with considerable confidence the directions and many of the objects, as well as some of the specific features of future progress, indicated to the discerning equally by the reflections of the past, and by the shadows cast by coming events. Thus we may confidently expect along the present line:

Centralization and distribution of power, labor and equipment.

Greater standardization of labor and equipment.

Greater development of natural resources of all kinds.

More skill, accuracy and better details in the forecasting and planning of production operations.

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Closer and fairer affiliation of capital and labor.

More frank and mutually satisfactory and profitable relations between contractors and dealers.

A broader and more universal system of ethics.

New types of construction for new demands.

New types of constructions for the opportunities afforded by new and improved materials, like high alloy steel.

New equipment developed for new methods of construction.

New and improved relations between construction, municipal and federal interests.

Wider foreign fields.

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STOCK BROKERS ADVERTISE BETTER AIR CONDITIONS

Exchanges Act to Encourage Improved Ventilation of Board Rooms

Despite hectic days in the stock market recently, the air in all brokerage offices is to be cleared for the health protection of traders, according to officials of the stock exchange.

The attention of the New York Stock Exchange, the New York Curb Association and the Chicago Board of Trade has been directed to the "slothful" air conditions prevailing in the board rooms of many brokerage offices and these institutions are bulletining members asking that steps be taken to improve air conditions.

The result is that brokerage houses here and in other cities are installing exhaust or ventilating fans in their board rooms to pull out smoke and odors and bring in fresh air supplies at regular intervals. Some firms, like the theatres, are advertising the fact that the air in their board rooms is changed every three to five minutes.

The New York Stock Exchange recently installed a complete, modern ventilating system, which not only changes the air every three minutes with mechanical precision, but overcomes all odors. Smoke from thousands of cigars and cigarettes is not noticeable on the busy floor of the stock exchange.

The New York Federal Reserve Bank, the Morgan building and the First National Bank are reputed to have among the finest ventilating systems in the metropolis. Each office in the Federal Reserve Bank has individual control of the mechanical ventilation system.

SOUTH SEEKS TOURISTS THRU COMFORT CAMPAIGN

Toots Air Cooling and Ventilation of Buildings to Attract Summer Traffic Stream

Progressive commercial interests in the "solid" south this summer are turning to the comforts of air-cooling and air conditioning to attract a larger portion of the great American tourist stream which is pouring forth to all points of the compass on the biggest scale ever known.

Hotels, restaurants, theatres, banks and other public buildings in such cities as Atlanta, Memphis, Louisville, Hou-

ston, Ft. Worth, Birmingham, New Orleans and many other points, have installed elaborate air-cooling and ventilating systems for the comfort of tourists and are using various methods to direct this fact to the attention of those who seek the open road for their summer vacation.

In many places where excessive humidity often makes the heat unbearable, resorts making a play for the tourist patronage are advertising the fact that they have installed central systems of controlled ventilation which remove the moisture and supply the cooling breezes of the upper Great Lakes Region. Several important southern newspapers, in commenting editorially on the widespread adoption of air-cooling and mechanical ventilation in the south, point to the number of heat victims in the New England and other northern states as pretty good proof that the vaunted temperatures of the south are not so bad after all.

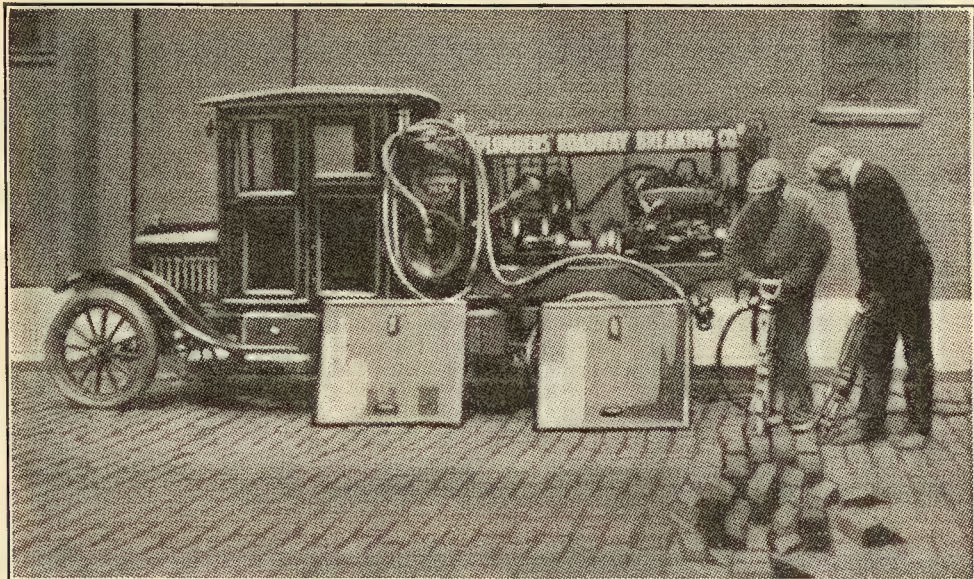
"Incidentally," remarks one newspaper, below the Mason-Dixon line, "if it gets too hot to be endured with patience in Massachusetts this summer, a trip to Florida could be recommended, and no doubt this will be tried by an increased number of excursionists and vacationists."

The movement for greater comfort in the summer through control of air conditions has received official recognition in Washington through the efforts of Major S. M. Corbett of the Army Medical Corps who is taking aggressive steps to bring about efficient cooling and ventilation of all government buildings. The muggy, sticky air in Washington during the hot season is pretty well known.

From the middlewest and far west it is reported that autoists this year are tending less to patronize the automobile camps and to seek comfortable hotels and farm houses. Farmers are finding the lodging of autoists a much more lucrative sideline and the tourists now on the road report an astonishing improvement in farm house accommodations with better cooking, linen sheets and other comforts and embellishments unheard of a few years ago.

Authorities everywhere are beginning to realize more than ever the necessity of speeding up traffic to reduce congestion. For that reason minimum speed laws are being adopted and police work on the highways is bitterly attacking the slow driver who chooses to take his time on important highways at 5, 10 or 15 miles an hour. No longer does the motorist get a warning admonition about speed. On the contrary, he is more apt to get a sharp command to "keep that old trap moving." One candidate for mayor in Toledo, for example, is featuring a plank in his campaign platform which commits him, if elected, to speeding up of traffic through a minimum speed ordinance and a greater elimination of left hand turns on important streets.

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Pearce Fireproof Co. 1911 N. 2nd St., Phila.

METERS

Phila. Meter Co. Real Estate Trust Bldg., Phila.

PAVING BRICKS

Ketcham, O. W. 121 N. 18th St., Phila.

PHOTOSTATS

Weber, F., Co. 125 S. 12th St., Phila.

PILES

Foundation & Construction Co. . 1320 Race St., Phila.

PLASTER (Colored)

California Stucco Products Co. . 1600 Arch St., Phila.

Mayflower Stucco Co. Plymouth Meeting, Pa.

PLASTERERS

Pigeon, Ernest A. 4231 Filbert St., Phila.

PLASTERING (Ornamental)

DeGiuseppe Art Marble Co. . . 818 N. 48th St., Phila.

Pigeon, Ernest A. 4231 Filbert St., Phila.

PORCH ENCLOSURES

Malia, Thos. J. 226-32 W. Mentor St., Phila.

RANGES

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ROLL SCREENS

American Metal Weatherstrip Co.,
2115 Diamond St., Phila.

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ROOFING

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SEWER PIPE

Clausen, Wm. H. 27th and Diamond Sts., Phila.

Cox, Janeway & Co. . . . Real Estate Trust Bldg., Phila.

SHEET METAL WORK (General)

Strandwitz & Scott, Inc.,
537-49 N. 2nd St., Camden, N. J.

SHEETROCK (Wall Board)

Pearce Fireproof Co. 1911 N. 2nd St., Phila.

SHELVING (Steel)

Richard W. Jefferis Co.,
11th & Linden Sts., Camden, N. J.

SOUNDINGS

Ridpath & Potter Co.,
S. W. Cor. 22nd & Cambria Sts., Phila.

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Ketcham, O. W. 121 N. 18th St., Phila.

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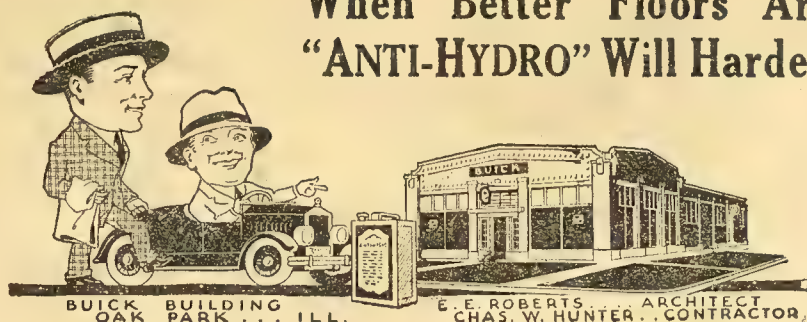
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BUILDING PAPER

Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 39
September 25, 1929

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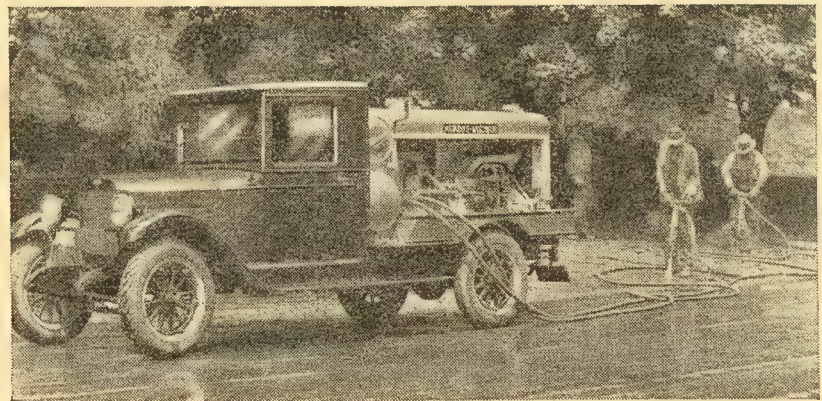
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 39

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PHILADELPHIA

September 25, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store Building, 42 North Ninth street, Philadelphia. Work contemplated. Architect, private plans. Owner, David Corn, 6026 Market street, Philadelphia. Brick, 4 stories, 28x90 feet.

Theatre, 1313-15-17 South street, Philadelphia. Preliminary plans in progress. Architect, Irving T. Catharine, Franklin Trust Building, Philadelphia. Owner, name withheld. 1 story, brick and steel, concrete, 45x120 feet.

Residence (alts. and add. into 6 Apts.), 419 Locust avenue, Germantown, Pa. Plans in progress. Owner will build. Will be ready for sub-bids in 2 weeks. Architect, Clarence L. Caspary, 1701 Walnut street, Philadelphia. Owner, Vincent Mercaldo, 411 Locust avenue, Germantown. Brick and steel, 3 stories and basement, 16x16 feet, hot water heat, electric light, metal lath, tile, marble, ornamental iron work, slag roof, oak and yellow pine floors.

Residences (30), Twin Residences (10 pairs), Nineteenth and City Line, Philadelphia. Plans completed. Owners will build and are taking sub-bids. Architect, Edgar A. Wightman, Bankers' Trust Building, Philadelphia. Owners, Erny & Nolen, Elston and Nineteenth street, Philadelphia. Brick, 2 stories, 16x44 feet, 16x48 feet, hot water heat, electric, tile, metal lath, slag and tile roof, hardwood floors, plumbing, basement garage, cement work.

Store Building, Sixty-ninth and Elmwood avenues, Philadelphia. Plans in progress. Owners will build and take sub-bids. Architect, private plans. Owners, Kaplan Brothers, 5909 North Broad street, Philadelphia. Brick, 1 story and basement, 50x70 feet, hot water

heat, electric, slag roof, maple floors, plate glass.

Residences (15), 2 Basement Stores, 1 Apartment House (9 Apts.), Malvern avenue, between Fifty-seventh and Fifty-eighth streets, Philadelphia. Owner will build, taking sub-bids. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Max Goldman, 5729 Spruce street, Philadelphia. Brick, cast stone, granite, 2 stories and basement, 16x58 feet, 16x62 feet, apartment house, 100x40 feet, 2 stories, central heat, electric, metal lath, tile, Spanish tile, slag roof, slate roof, oak, yellow pine floors, plumbing.

Motion Picture Theatre, Point Breeze avenue and Oakford street, Philadelphia. Architect ready for bids on revised plans. Architect, L. A. Manfredi, 2228 Mifflin street, Philadelphia. Owner, Lawstal Co., care of architect. Brick, steel, concrete, cast stone, 1 story and basement, 53x112 feet, steam heat, electric light, metal lath, tile, ornamental iron work, slag roof, cement floors.

Reservoir Clay Pipe Outfit, City of Philadelphia, Pa. Owners taking bids due September 30th, noon, Room 329, City Hall. Architect, private plans. Owners, Department of Supplies, 302 City Hall, Philadelphia. Rubber and lead cable.

Contract No. 229, Broad Street Subway, Philadelphia. Owners taking bids due October 4th, noon (Standard Time). Architect, private plans. Owners, Department of City Transit, City of Philadelphia, City Hall Annex. Plumbing, sewage ejectors. Deposit, \$25, refunded.

Demolition, etc., Philadelphia, Pa. Owners taking bids due October 1st. Owners, Depart-

ment of Public Works, Bureau of City Property, 903 City Hall Annex, Philadelphia. Inquire 117 City Hall. No. 1—Demolition and removal of stone building and appurtenant work, brick building, on South side of Allen's Lane, West of Ryan street (Mt. Airy). Specification from Room 117, City Hall. No. 2—Repairs and alterations, fire station, Engine Company No. 59, Hunting Park avenue and Schuyler street, Philadelphia. Owners taking bids due October 1st, noon (Standard Time), twelfth floor, East, City Hall Annex. General construction. Deposit, \$5. Architect, W. Seovell, City Architect, City Hall Annex.

Apartment House, \$25,000. 3236 North Sixteenth street, Philadelphia. Permit issued. Architect, J. E. Fieldstein, 112 South Sixteenth street, Philadelphia. Owner, William Williams, Sharon Hill, Pa. Brick, 2 stories, 25x122 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (24), \$85,000. 7401-47 Andrews avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Harold Muller, Oak Lane Trust Building, Philadelphia. Brick and stone, 2 stories, 15x37 feet, 12x14 feet, slag roof, pine and hardwood floors, hot water heat, electric light.

Store (alts. and add.), \$2,500. 2408-10 North Front street, Philadelphia. Permit issued. Architect, William Morrison, 3812 York road, Philadelphia. Owner, John Morrison, Southeast Corner Front and Susquehanna avenue, Philadelphia. Brick, 1 story add., general alterations.

Gas Station, \$3,000. Southeast Corner Thirty-third and Lehigh avenue, Philadelphia. Per-

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mit issued. Architect, private plans. Owners, Standard Oil Company, Public Ledger Building, Philadelphia. Brick, 1 story, 18 feet 5 inches x irregular.

Gas Station, \$3,000. 1631-35 Hunting Park avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Isander & Miller, 905 Pennsylvania Building, Philadelphia. Brick, 1 story, 18 feet 5 inches x irregular.

Men's and Women's Locker Building, Junata Park, Philadelphia. Low bidders. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Commissioners of Fairmount Park, City Hall, Philadelphia. Stone, 2 stories and basement, 50x27 feet, 3 stories and basement, 47x60 feet, concrete and cement work, demolition, excavation, brick work, limestone, steel and iron work, steel casement sash, carpentry, mill work, hardware, plastering, metal lath, stucco work, mineral floor, terrazzo work, rubber tile floors, marble work, slate roof, painting and glazing, hot water heat, plumbing, electric work. Men's lockers—Conneen Construction Co., 770 South Schuylkill avenue, \$28,876; Haverstick & Borthwick, Schaff Building, \$30,889. Women's lockers—Conneen Construction Co., 770 South Schuylkill avenue, Philadelphia, \$26,800; Haverstick & Borthwick, Schaff Building, Philadelphia, \$28,500.

Miscellaneous Road Work, Philadelphia, Pa. Low bidders. Owners, Department of Public Works, Bureau of Highways, City Hall Annex, Philadelphia. Abbottsford, Fox street to Connecting Railway, King street, etc., McCarriek Brothers, 3240 Fox street, Philadelphia, \$4,861.17. Michener, Mt. Airy to Cresheim street, Philadelphia, Morrissey Brothers, 4336 North Marshall street, Philadelphia, \$4,121.64. Spring Lane, from Hagy's Mill road to Tripple street, McCarriek Brothers, 3240 Fox street, Philadelphia, \$7,205.75. Asphalt Repaving—Fox street, from Hunting Park avenue to Abbottsford road, etc., Mack Paving Co., Nicetown Lane and C street, \$65,973.73. Canal street, Poplar to a point 90 feet North of Lewellen, Mazzolla & Marano, 739 North Seventh street, Philadelphia, \$8,651.75. Abbottsford, from

King to Fox street, Bowman, etc., Union Paving Co., 123 South Twenty-first street, Philadelphia, \$11,159.94. Thirtieth street, from Oxford avenue to Jefferson street, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$7,903.72. Curbing and Footway Work—James F. O'Rourke, 950 North Fiftieth street, Philadelphia, \$5,909.75. Paving and Repaving Certain Alleys—Ernest Ventresco, 6016 Ross street, Philadelphia, \$7,548.50.

Bridges, etc., Philadelphia, Pa. Owner taking bids due Oct. 9th. Architect, private plans. Owner, Department of Public Works, Bureau of Engineers and Surveys, 12th floor, City Hall Annex (inquire room 1101, Annex).

Schedule A: Bridge on line of Henry avenue, over Wissahickon Creek.

Schedule B: Widening bridge at Wyoming avenue and Roosevelt Boulevard over North Penn Branch.

Schedule C: Turn borings, Penrose avenue, Schuylkill River. Pennsylvania Terminal Improvement.

Schedule D: Contract No. 6. Foundations for Arch and Thirtieth streets, viaduct.

Schedule E: Contract No. 4. Bulkhead wall and sewer, Spring Garden street, southward.

Grading (Vitrified Block Repaving). Redressed block repaving, Philadelphia, Pa. Owner taking bids due Oct. 1st. Owner, Dept. of Public Works, Bureau of Highways, 1002 City Hall Annex, Philadelphia. Bids opened Thirtieth street, end 12th floor, City Hall Annex. Inquire room 1004.

Residences (24), \$77,400. South side Vista street, Erdick to Walker street, Philadelphia. Permit issued. Architect, private plans. Owner, Michael H. Riegel, 337 East Cheltenham avenue, Philadelphia. Brick, 2 stories, 16 x 36 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residence, \$3,800. 3568 Calumet street, Philadelphia. Permit issued. Architect, private plans. Owner, George Filoon, 3626 Calumet street, Philadelphia. Brick, 2 stories, 17 feet 6 inches x 42 feet, slag roof, pine floors, hot water heat, electric light.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bank Building, Northwest Corner Orthodox and Torresdale avenue, Philadelphia. Contract awarded Stewart Brothers, 2526 North Orkney street. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owners, Corn Exchange National Bank & Trust Company, B. E. Effing, Vice-President, Frankford and Oxford avenues, Philadelphia.

Stone, limestone, steel, brick, granite, 1 story, mezzanine, basement, 52x40 feet, cement floors, hollow tile, plumbing, area gratings, ornamental iron, iron stairs, tile, terrazzo, metal lath, electric, steam heat, demolition, excavation, kitchen equipment, bronze and steel, counter work, wall finish, metal ceilings, metal toilet partitions, composition floors,

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composition roof, built-up roof, galvanized iron skylights, linoleum floors, North Carolina pine floors.

Bank Building, Howell and Torresdale avenue, Philadelphia. Contract awarded Stewart Brothers, 2526 North Orkney street, Philadelphia. Architect, C. H. Fries, Frankford and Oxford avenues, Philadelphia. Owners, Corn Exchange National Bank & Trust Company, B. E. Effing, Vice-President, Frankford and Oxford avenues, Philadelphia. Stone, limestone, steel, brick, granite, 1 story, mezzanine, basement 52x40 feet, cement floors, hollow tile, plumbing, area gratings, ornamental iron work, iron stairs, tile, terrazzo, metal lath, electric work, steam heat, demolition, excavation, kitchen equipment, bronze and steel counter work, wall finish, metal ceilings, metal toilet partitions, composition, linoleum and North Carolina pine floors, composition and built-up roof, galvanized iron skylights.

Bank Building (add.), Second and Chestnut streets, Philadelphia. Contract awarded Irwin & Leighton, Schaff Building, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Corn Exchange National Bank, Charles S. Caldwell, President, on premises. Brick, limestone, steel, 4 stories and basement, 122x52 feet, demolition, excavation, concrete foundations, brick work, dampproofing, fireproofing, granite, iron stairs, caulking, kalamein doors, fire doors, tile roof, copper skylights, roof ventilators, painting, glazing, celotex, accoustex, hardware, marble, rubber tile, terrazzo work, plumbing, electric work, elevator.

Store Building, 3112-18 Kensington avenue, Philadelphia. Contract awarded Turnbull & Cornell, 15 South Twenty-first street. Architect, J. E. Sexton, Engineering Division, S. S. Kresge Co., Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Brick, steel, architectural terra cotta, limestone, 2 stories and basement, 115x63 feet, hollow tile, electric light, tile, marble and terrazzo, bond, kalamein doors, ornamental iron work, waterproofing, excavation, concrete and stone work, cement floors, metal toilet partitions, bronze grilles, oak and maple floors, metal store fronts, metal ceilings, roof insulation, wood decks, built-up roof, metal lath, plastering, bond, painting, decorating, California Stucco, window shades.

Club House, 1616 Latimer street, Philadelphia. Contract awarded Jacob Myers & Son, 5100 Lancaster avenue. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, Cosmopolitan Club, care of architect. Reinforced concrete, brick, limestone, steel, 3 stories and basement, 85x24 feet, slag roof, wood deck, concrete and oak floors, caulking, waterproofing, cast stone, ornamental iron work, steel casement windows, bond, kalamein doors, steel skylights, tile, metal lath, metal

toilet partitions, excavation, linoleum floors, carpentry and mill work, metal lath, plastering, painting, glazing, kompolite floors, plumbing, brass pipe, steam heat, electric.

College Building, Thirty-third and Abbottford avenue, Queen Lane and Vaux street, Philadelphia. Contract awarded Cramp & Co., Denckla Building, Philadelphia. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Women's College of Philadelphia, Sheldon P. Ritter, Chairman. Brick, steel, concrete, 4 stories and basement, 340x43 feet, wing 86x43 feet, tile, composition roof, composition rubber tile cement floors, hollow tile, elevators, plumbing, metal window guards, metal weatherstrip, caulking, waterproofing and dampproofing, flagstone, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal doors, bond, iron stairs, ornamental iron work, linoleum, hollow metal doors.

Mill (add.), Keystone and Benner streets, Philadelphia. Contract awarded William F. Lotz, Frankford avenue and Oxford Pike. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owners, S. & S. Hosiery Co., on premises. Brick, concrete, structural steel, 1 story, 100x100 feet, slag roof, wood deck, steam heat, electric light, steel sash, kalamein doors.

Apartment House, Southeast Corner Sixty-first and Baltimore avenue, Philadelphia. Contract awarded Max E. Zipkin, 1629 West Vengano street, Philadelphia, who is taking sub-bids. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owners, Edelstein & Bernstein, 219 South Broad street, Philadelphia. Brick and steel, 4 stories and basement, 150x80 feet, steam heat, electric light, metal lath, tile work, ornamental iron work, slag roof, oak and yellow pine floors.

Junior High School, Corinthian and Girard avenues, Philadelphia. Contract awarded United Engineers & Constructors, Broad and Arch streets, Philadelphia, who will take sub-bids soon. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Engineers, Day & Zimmerman, 112 North Broad street, Philadelphia. Owners, Girard College, on premises. Marble and steel, 4 stories and basement, steam heat, electric work, slag roof, concrete floors.

Contract No. 226, Station Finish, South Broad Street Subway, Philadelphia. Contract awarded Kaufman Construction Co., 26 South Fifteenth street, Philadelphia, who are taking sub-bids. Architect, private plans. Owners, Department of City Transit, City of Philadelphia, City Hall Annex. Marble toilet partitions, hollow metal floors, brick work, hollow tile, plastering, safety treads, steel sash, copper covered doors, copper louvers, bronze grilles, ornamental iron work, granite.

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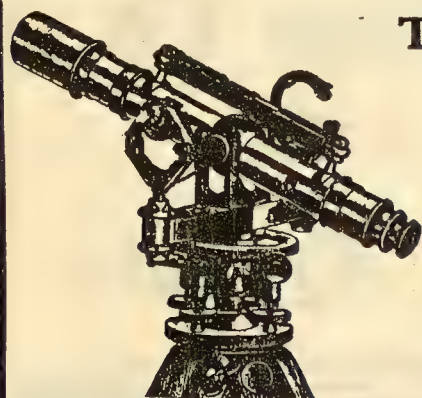
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Residence and Garage, Wayne and Mt. Airy avenues, Philadelphia. Contract awarded William F. Roth, Jr., 6732 Germantown avenue. Architect, John W. Keyes, Otis Building, Philadelphia. Owner, Lott Boardman, 327 Hansberry avenue, Philadelphia. Stone, 2½ stories and basement, 80x36 feet, slate roof, oak and yellow pine floors, metal lath, tile work, bond, ornamental iron work.

Store, \$4,000. 118-20 Tabor road, Philadelphia. Contract awarded Charles A. Greenwood, Bank of Philadelphia & Trust Building, Philadelphia. Owner, Sydney K. Allman, Finance Building, Philadelphia. Brick, 1 story, 30x65 feet.

Storage Building (add.), \$2,500. 420 Lemonte street, Philadelphia. Contract awarded Elmer Cuthbertson, 334 Roxborough avenue, Philadelphia. Architect, private plans. Owner, George Shirley, 420 Lemonte street, Philadelphia. Brick, 1 story add., 48 feet 6 inches x 22 feet.

Manufacturing Building (add.), \$120,000. West side Rising Sun avenue, South of Luzerne street, Philadelphia. Contract awarded

White Construction Co., 95 Madison avenue, New York. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Apex Hosiery Co., Fifth and Rising Sun avenue, Philadelphia. Reinforced concrete, 6 stories add., 65 feet 3 inches x 96 feet.

Storage Building (add.), \$10,000. 2216-18 North Fourth street, Philadelphia. Contract awarded William Freiling, 5025 North Sixth street, Philadelphia. Architect, private plans. Owners, Charles Gruber's Sons, 2220 North Fourth street, Philadelphia. Brick, 2 stories add., 32x47 feet.

Factory (add.), 4837 James street, Philadelphia, \$8,000. Contract awarded William F. Lotz, Oxford Bank Building, Philadelphia. Owners, Fayette R. Plumb, Inc., on premises. Concrete, 1 story add., 40x80 feet.

Shop, \$6,000. Luzerne street, West of G street, Philadelphia. Contract awarded Trucon Steel Company, 1505 Race street, Philadelphia. Owners, Philadelphia Electric Co., Ninth and Sansom streets, Philadelphia. Iron on iron, 1 story, 28x100 feet.

Garage, \$20,000. East side Fortieth street, North of Baring street, Philadelphia. Contract awarded H. G. Walters, 412 North Fortieth street, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owners, Merwyn Construction Co., Fifty-seventh and Ludlow streets, Philadelphia. Brick, 1 story, 68x125 feet, slag roof, cement floors, electric work.

Hospital (alts.), \$10,000. Southeast Corner York road and Tabor road, Philadelphia. Contract awarded E. E. Hollenback, 1910 North Marshall street, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Jewish Hospital, on premises. General alterations.

Store Building, \$8,000. 8511 Germantown avenue, Philadelphia. Contract awarded Melvin H. Grebe, 5 East Highland avenue, Philadelphia. Architect, John W. Keyes, Otis Building, Philadelphia. Owner, J. L. Gillies, 8515 Germantown avenue, Philadelphia. Brick, 2 stories, 18x70 feet, slag roof, pine and cement floors.

Store, \$2,500. Southeast Corner Eighteenth and Cheltenham avenue, Philadelphia. Contract awarded Frank Cors, 200 South Easton road, Philadelphia. Architect, private plans. Owner, Stephen Snyder, 6349 North Eighteenth street, Philadelphia. Brick, 1 story, 16x19 feet, electric light, slag roof.

Apartment House (alts. and add.), \$2,500. 7163-65 Germantown avenue, Philadelphia. Contract awarded H. H. Burrell & Son, 206 South Quince street, Philadelphia. Architect, private plans. Owner, James Johnson, 7169

Germantown avenue, Philadelphia. Brick, 1 story add., 16x10 feet, general alterations.

Residence, \$3,500. 7119 Gray's Ferry avenue, Philadelphia. Contract awarded Samuel J. Jones, 7103 Woodland avenue, Philadelphia. Architect, private plans. Owner, John Hulbans, 7103 Woodland avenue, Philadelphia. Stone and brick, 2 stories, 16x40 feet, slag roof, pine floors, hot water heat, electric light.

Storage Shed, \$8,500. 229 Church Lane, Philadelphia. Contract awarded J. Riley & Son, Forrest avenue, Mt. Airy, Pa. Architect, private plans. Owners, Jones Coal & Lumber Co., 229 Church Lane, Philadelphia. Frame, 1 story, 50x110 feet.

Bridge, between Sixty-fifth street and Florence avenue, over Cobb's Creek. Contract awarded Kaufman Construction Co., 26 South Fifteenth street, Philadelphia, who are taking sub-bids on concrete sidewalks and curbs. Architect, private plans. Owners, City of Philadelphia, Department of Bridges, City Hall, Philadelphia.

Church, \$16,000. 16 E. Clapier street, Philadelphia. Contract awarded Wm. F. Lotz, Oxford Bank Building, Philadelphia. Architect, private plans. Owners, Gospel Hall, on premises. Stone, 1 story, 33 x 68 feet.

Store and Storage Building, \$4,000. 25 S. Eleventh street, Philadelphia. Contract awarded Frank C. Stockholm, 120 N. Camac street, Philadelphia. Owners, Girard Estate, Lafayette Building, Philadelphia. General alterations.

Pennsylvania Construction News

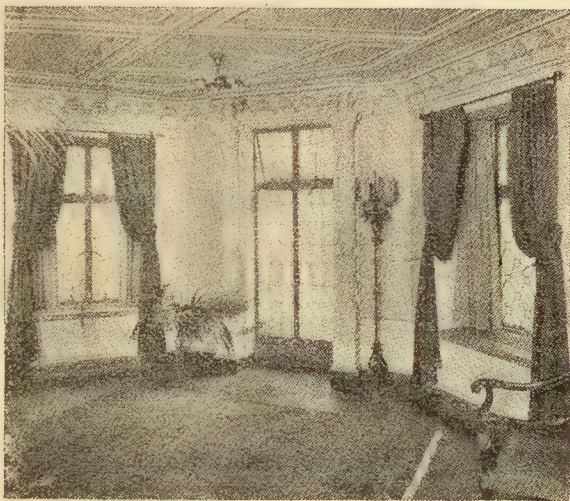
Grade School, \$50,000. Chester, Pa. Work contemplated. Architect, not selected. Owners, School District of Chester, Pa., J. C. Taylor, President; Charles E. Sanderson, Secretary, Chester, Pa. Brick, 2 stories.

Junior and Senior High School and Athletic Field, \$120,000. Parkesburg, Pa. Work contemplated. Architect, not selected. Owners, School Board of Parkesburg, Pa., J. A. McEvoy, President, Parkesburg, Pa.; School Board of Borough of Atglen, W. D. Swisher, President, Atglen, Pa.; School Board of Sadesbury, Paul Bender, President, Pomeroy, Pa.; School Board of West Sadesbury Township, Amos Grube, President, Atglen, Pa. Brick, 2 stories and basement.

Grade School, \$20,000. Pomeroy, Pa., between Parkesburg and Coatesville, Pa. Work contemplated. Architect, not selected. Owners, School Board of Parkesburg, J. A. McEvoy, President, Parkesburg, Pa.; School Board of

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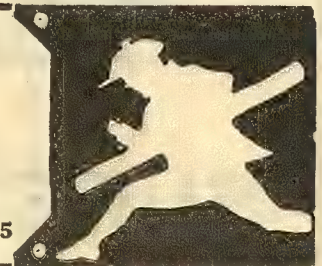
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Atglen, W. D. Swisher, President, Atglen, Pa.; School Board of Sadsbury Township, Paul Bender, President, Pomeroy, Pa.; School Board of West Sadsbury Township, Amos Grube, President, Atglen, Pa. Brick, 1 story and basement.

Store Building, Main and Green streets, Souderton, Pa. Preliminary plans in progress. Architect, Charles M. Talley, Telford, Pa. Owners, Keystone Furniture Co., Lancaster, Pa. Cinder block, steel, reinforced concrete, cast stone, 3 stories and basement, 47x112 feet, hot water or vapor heat, electric, tile, metal lath, concrete, terrazzo, built-up asphalt roof, steel partitions, plate glass, bronze, bulks.

Residence, Allentown, Pa. Plans in progress. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Mr. Leary, care of architect. Brick, 2½ stories, 45x30 feet, slate roof, hardwood floors, steam heat, electric light, tile work.

Gymnasium Building, Swarthmore, Pa. Plans in progress. Architects, Ritter & Shay, Southeast corner Fifteenth and Chestnut streets, Philadelphia. Owners, School Board of Swarthmore, Mrs. Henrietta Jaquette, Secretary, Swarthmore, Pa. Stone, 2 stories and basement, 50x100 feet.

Parish Hall, \$150,000. South Washington street, Wilkes-Barre, Pa. Plans in progress. Architect, Carl J. Schmitt, 198 North Main street, Wilkes-Barre, Pa. Owners, St. Nicholas' Roman Catholic Church, Wilkes-Barre, Pa.

State Oral School (alts. and add.), \$98,000. Washington avenue and Electric street, Scranton, Pa. Plans in progress. Architects, Davis & Lewis, Scranton Electric Building, Scranton, Pa. Owners, Pennsylvania State Oral School, care of architects.

Group of Buildings, Laurelton State Village, Laurelton, Pa. Plans in progress. Architect, George S. Idell, 1510 Chestnut street, Philadelphia, Pa. Owners, Commonwealth of Pennsylvania, Department of Welfare, Capital Building, Harrisburg, Pa. Brick and stone.

Junior and Senior High School, near Kennett Square, Pa. Plans in progress. Architect, E. William Martin, DuPont Building, Wilmington, Del. Owners, School Board of Kennett Square, Frank W. Graff, President, Kennett Square, Pa. Brick and steel, 2 stories.

Residence and Garage, Barrowdale Tract, Meadowbrook, Pa. Plans in progress. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, W. & M. Herkness, Packard Building, Philadelphia. Stone, 2½ stories, hot water heat, electric light, metal lath, tile work, ornamental iron work, slate roof, oak and yellow pine floors.

Country Club (add.), Easton, Pa. Architect

will be ready for bids first of next week. Architect, William Michler, Drake Building, Easton, Pa. Owners, Northampton Country Club, Mr. Walters, Chairman, Building Commission, Easton, Pa. Frame, stucco, 2 stories, 50x50 feet, asbestos shingle roof, maple floors, electric light, tile work.

Apartment House (12 apartments), Lancaster Pike and Griffin Lane, Haverford, Pa. Architect taking sub-bids due as soon as possible. Architects, De Armond, Ashmead & Bickley, 20 South Fifteenth street, Philadelphia. Owner, name withheld. Brick and steel, 6 stories and basement, 50x50 feet, vapor heat, electric light, metal lath, tile, marble work, steel casement windows, ornamental iron work, built-up roof, oak and linoleum floors, elevators (2), incinerators, limestone or architectural terra cotta, cast stone, wood doors, plumbing.

East End Junior High School, York, Pa. Owners taking bids due October 10th, at 8 P. M. Architect, Robert A. Stair, Guardian Trust Building, York, Pa. Owners, Board of Education, D. N. Crider, Secretary, Central School Building, King and Cherry streets, York, Pa. Fireproof, 2 stories and basement, 145x200 feet, 50x100 feet, composition roof, maple and terrazzo floors, hollow tile, safety treads, roof ventilators, waterproofing, architectural terra cotta, bond, steel skylights, tile, metal lath (heating, plumbing and electrical work separate). Deposit, \$30 (refunded). Certified check, 10 per cent.

Residence and Garage, Bryn Mawr, Pa. Architects taking bids due September 30th. Architects, Tilden, Register & Pepper, 1608 Walnut street, Philadelphia. Owner, W. S. Maddox, Fidelity-Philadelphia Trust Building, Philadelphia. Stone and steel, 2½ stories and basement, 82x150 feet, hot water heat, electric light, tile work, bond, steel casement windows, ornamental iron work, slate roof, oak and yellow pine floors, plumbing, carpentry and mill work, excavation, hardware.

Athletic Field and Stadium, Greenwood avenue, Walnut street, West avenue and Highland avenue, Jenkintown, Pa. Low bidders. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Jenkintown School District, Guy M. Graybill, Jenkintown, Pa. Excavation, 200 feet long, concrete and cement floors, stone, masonry, brick work, carpentry and mill work, painting, glazing, electric work, bond. Simms & Co., 123 South Twenty-first street, Philadelphia, \$52,500; Roy Randall, Jenkintown, Pa., \$52,985.

Electric Work, Capitol Building, Harrisburg, Pa. Low Bidder: Ross Electric Co., 106 Fairmount avenue, Philadelphia, \$83,913. Engineer, Frank St. Clair, Jr., Department

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of Supplies, Harrisburg, Pa. Owner, Commonwealth of Pennsylvania, B. E. Taylor, Harrisburg, Pa. Changing over of electric equipment for alternating current.

Power House (alts. and add.), East Stroudsburg, Pa. All bids rejected. Will be re-advertised. Architects, Davis & Lewis, Scranton Electric Building, Scranton, Pa. Owners, East Stroudsburg Teachers' College, care Frank St. Clair, engineer in charge, Capitol Building, Harrisburg, Pa. Brick, 1 story addition (general alterations).

Hospital for Crippled Children, Elizabethtown, Pa. Low bidders. Architect, F. St. Clair, Jr., engineer Dept. of Supplies, Harrisburg, Pa. Owner, Commonwealth of Penna., B. E. Taylor, Harrisburg, Pa. Water works, sewage and gas system, Fulton Constr. Co., Lancaster, Pa., \$65,532.46. Elevators, Otis Elevators, 502 N. 19th street, Philadelphia, Pa., \$16,328. Electric feeder and accessories, Dauphin Electric Co., Harrisburg, Pa., \$3,447. High and low pressure steam equipment, J. H. Bowman, Penbrook, Pa., \$8,983.

Church and School, Hulmeville, Pa. Plans nearly completed. Architect ready for bids in 3 weeks. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Neshaminy M. E. Church, Hulmeville, Pa. Brick and steel, 1 story, 68 x 61 feet, steam heat, electric light, built-up roof, pine and concrete floors.

Residence and Garage, \$6,000. West Chester, Pa. Owner will build. Architect, W. J. Corcoran, West Chester, Pa. Owner, J. M. Bullock, care Architect. Hollow tile, stucco, 2½ stories, hardwood and pine floors, hot water heat, electric light.

Cottage and Barn, \$30,000. Opposite Rose Tree Hunt, Pa. Plans in progress. Details undecided. Architect, Wm. J. Corcoran, West Chester, Pa. Owner, name withheld. Stone, hollow tile and stucco, 2½ stories and basement.

Sanitary and Storm Sewer, Commonwealth avenue, Harrisburg, Pa. Owners taking bids due Sept. 27 at 2 P. M. (S. T.) Owners, Commonwealth of Pennsylvania, B. E. Tay-

lor, Capitol Building, Harrisburg, Pa. Engineer, Frank St. Clair, Jr., Capitol Building, Harrisburg, Pa. Deposit \$25 (refunded); certified check \$4,000.

Sewer, Clifton Heights, Pa. Owners taking bids due October 3rd, 8 P. M. (Standard Time). Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Clifton Heights, Harry R. Jones, Secretary, Legion Hall, Clifton Heights, Pa. Construction of storm sewer and sanitary sewer on Glenwood avenue. Sanitary sewer on Fairview avenue, from Christian to Glenwood.

Road Work, Pennsylvania. Low bidders. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Juniata County, R-31, Fermanagh Township, Mifflintown Borough. Bridge, concrete arch. Ira J. Reighter Construction Co., Harrisburg, Pa., \$24,975.61.

Somerset County, R-52, Sec. 6 and 7, Jenner Township, Boswell Borough. One course reinforced concrete. Windber Construction Co., Windber, Pa., \$207,259.63.

Bucks County, R-252, Middletown, Northampton and Southampton Townships. One course reinforced concrete. E. Riley Mixner Co., Ocean City, N. J., \$102,558.21.

Lehigh County, A-6301, Lower Milford Township. One course reinforced concrete. Continental Contracting Co., Baltimore, Md., \$93,627.65.

Elk and Clearfield Counties, R-99 Spur, R-411, A-6535, Jay and Huston Townships. One course reinforced concrete. L. R. Mathieu, Altoona, Pa., \$241,186.82.

Somerset County, R-50, Sec. 8 and 9, Upper and Lower Turkeyfoot Townships. One course reinforced concrete. M. F. McCabe Co., Salisbury, Pa., \$291,954.28.

Beaver County, R-347, Sec. 2, Franklin Township. One course reinforced concrete. The Holmes Construction Co., Wooster, Ohio, \$312,543.15.

Erie and Crawford Counties, R-367, A-6521, Concord and Sparta Townships. One course

reinforced concrete. Hagedorn Construction Company, of West Virginia, Oil City, Pa., \$20,529.92.

Snyder County, R-198, A-5792, Perry, Franklin and Washington Townships. Grading and drainage. O. P. Bell Construction Co., Sunbury, Pa., \$152,340.46.

Butler and Lawrence Counties, R-246, Sec. 1, Muddy Creek, Slippery Rock, Scott and Washington Townships. One course reinforced concrete. Holmes Construction Co., Wooster, Ohio, \$447,539.25.

Monroe and Pike Counties, R-167, Middle and Smithfield Townships. One course reinforced concrete. Rudolph & Delano, Tamaqua, Pa., \$216,195.72.

Mercer and Trumbull Counties, A-6220, South Pymatuning Township. One course reinforced concrete. Young & Koeseker, Youngstown, Ohio, \$34,823.19.

Lehigh County, A-6368, A-6293, North Whitehall and Lowhill Townships. One course reinforced concrete. Grading and drainage. Kutztown Construction Co., Kutztown, Pa., \$174,000.

Indiana County, R-63, Sec. 2, A-6732, White, Rayne and Washington Townships. One course reinforced concrete. Gray Brothers, Youngstown, Ohio, \$227,235.39.

Centre County, R-107, S-4, Spring and Boggs Townships. One course reinforced concrete. George I. Thompson Co., Clearfield, Pa., \$125,394.18.

Westmoreland County, R-348, Sec. 4, R-228, Spur, Bell Township. One course reinforced concrete, grading and drainage. Richard Hopkins Co., Albany, N. Y., \$267,663.70.

Butler County, R-75, S-1, A-6731, Venango, Concern and Washington Townships. One course reinforced concrete. Charles Winters Construction Co., Butler, Pa., \$383,835.65.

Indiana County, R-508, Sec. 2, Greene, East Mahoning and Rayne Townships, Marion Center Borough. One course reinforced concrete. Eastern States Construction Co., Meadville, Pa., \$260,101.62.

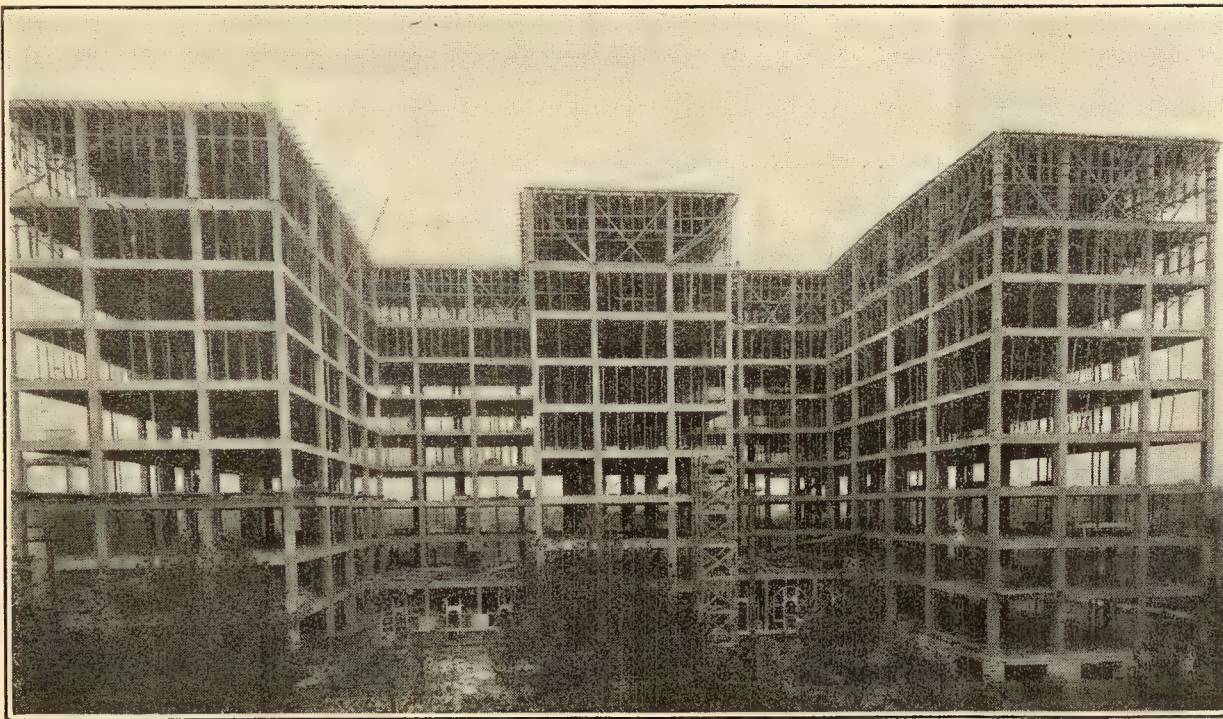
Indiana County, A-5461, Montgomery Township. One course reinforced concrete. Eastern States Construction Co., Meadville, Pa., \$77,112.67.

McKean County, R-459, S-1, Keating Township, Smethport Borough. One course reinforced concrete. H. E. Bunce, Hornell, N. Y., \$408,028.34.

Lawrence County, R-233, Scott Township. Reinforced concrete bridge. Woods & Golder, New Castle, Pa., \$25,496.57.

Allegheny County, R-72, S-5, R-389, Shaler Township. One course reinforced concrete. Frank S. Tillman & Co., Tarentum, Pa., \$119,679.76.

Lawrence County, R-315, Shenango Township. One course reinforced concrete. F. S. Wilson, Kittanning, Pa., \$25,979.82.



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Pennsylvania Contracts Awarded

Court House (add.), Media, Pa. Contracts awarded. Architect, C. W. Brazier, Chester, Pa. Owners, Delaware County Commissioners, G. T. Wades, Media, Pa. Reinforced concrete, marble, granite, steel, 3rd floor add., 364x144 feet, 2 wings, 158x144 feet, 2 stories and basement. General, Arey-Hauser Co., Elverson Building, Philadelphia, \$1,454,600. Heating, Hughes Brothers, Upper Darby, Pa., \$112,490. Electric, Mitchell & Co., 1337 McFerron street, Phila., \$49,700. Plumbing, N. Conolly, 1404 North 18th st., Phila., \$64,337. Elevators, Otis Elevator Co., 502 North Nineteenth street, Phila., \$10,690.

Hosiery Mill, \$100,000. Lansdale, Pa. Contract awarded Barney Ahlers Construction Co., 110 West Fortieth street, New York City.

Architect, private plans. Owners, Interstate Hosiery Mills, Inc., 232 Madison avenue, New York City. Brick and steel, 1 story, 25x100 feet, new dye house, storage building, 1 story, 25x100 feet, alterations to boiler house, slag roof, yellow pine floors, electric light, ornamental iron work.

High School Building, Mechanicsburg, Pa. General contract awarded C. S. Williams, Dillsburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Mechanicsburg School Board, G. A. Minemayer, Mechanicsburg, Pa. Brick, steel, 2 stories and basement, 137x149 feet, built-up roof, roof ventilators, linoleum, hardwood and composition floors, cast stone, brownstone, bronze, steel casements, tile, marble, terrazzo, metal lath.

Church (alts.), Bryn Mawr, Pa. Contract awarded H. P. Wolfe & Son, Bryn Mawr, Pa. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Lower Merion Baptist Church, Dr. G. M. Walker, Pastor, Bryn Mawr, Pa. New stone vestibule, porch, interior alterations, stone work, excavating, cement floors, limestone, structural steel, plumbing, electric work, tile, flagstone, slate roof, iron work, plastering, painting, glazing, carpentry and mill work (heating reserved).

Residence and Cottage (alt. and add.), Abrams Lane, Villa Nova, Pa. Contract awarded Milton W. Young, 2037 North Sixty-third street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, R. L. Montgomery, on premises. Frame, stone, 2½ stories and basement, 21x15 feet, 41x29 feet, shingle roof, oak and pine floors, demolition and brick work, carpentry and mill work, hot water heat, electric light, tile work, metal lath, bond, ornamental iron work, plastering, painting, glazing, plumbing, slate roof.

Apartment House, Yeadon, Pa. Contract awarded Max E. Zipkin, 1629 West Venango street, Philadelphia, who is taking sub-bids. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owner, A. T. Grant, Yeadon, Pa. Brick, steel, cast stone, 4 stories and basement, 163x70 feet, hot water heat, electric, metal lath, tile, bond, casement windows, ornamental iron work, slag roof, oak and yellow pine floors.

Residence and Garage, No. 609, Lot No. 13, Thayer road, Swarthmore, Pa. Contract awarded F. K. Worley, Northwest Corner Seventeenth and Arch streets. Architect, J. Linerd Connarroe, 1518 Walnut street, Philadelphia. Owner, Louis Cole Emmons, Swarthmore, Pa. Brick, stone, steel, 2½ stories and basement, 40x26 feet, wing 30x21 feet, hot water heat, electric light, metal lath, tile and marble, slate roof, oak, yellow pine and cement floors, plumbing, carpentry and mill work, painting.

Residence and Garage, Glenside, Pa. Contract awarded Sauter & Schwertner, Schaff Building, Philadelphia. Architect, private plans. Owner, Henry M. Weir, Glenside, Pa. Frame and stucco, 2½ stories and basement, 43x27 feet, hot water heat, electric light, tile work, shingle roof, oak and yellow pine floors, cement floors.

School, Citronia, Pa. Contract awarded Hoch Contracting Co., 329 North Thirteenth street, Allentown, Pa. Plumbing and heating to E. P. Saeger Co., 1401 Turner street, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, South Whitehall Township School Board, O. N. Miller, President, 732 North Twenty-sixth street, Allentown, Pa. Brick, steel, 2 stories and basement, 67x90 feet, slag roof, maple floors.

Apartment House, Allentown, Pa. Contract awarded Potruch Construction Co., 926 Hamilton street, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa.

Owner, I. Baring Holtz, Allentown, Pa., care of architect. Brick, 3 stories and basement, 28x70 feet, slag roof, pine or hardwood floors, vapor heat, electric light.

Garage, Kennett Square, Pa. Contract awarded Paul G. Hannum, Kennett Square, Pa. Architect, R. B. Okie, 306 South Smedley street, Philadelphia. Owner, Edwin L. Ladley, Kennett Square, Pa. Stone, frame, 1½ stories, 24x40 feet, hot water heat, electric light, plumbing, shingle roof, concrete floor.

Store and Office Building (alts. and add.), North Queen street, Lancaster, Pa. Contract awarded Charles S. Bannett, 4700 Springfield ave., Phila. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, A. Jacobs, on premises. Brick, 4 stories, general alterations and additions.

Sprinkler System, near Easton, Pa. Contract awarded Central Automatic Sprinkler Co., 243 East Ashmead street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Individual Drinking Cup Co., near Easton, Pa.

Laying Curbs and Gutters, West side Fire House, Clifton Heights, Pa. Architect, private plans. Owners, Borough of Clifton Heights, Pa. Contract awarded Edward Grimly, Clifton Heights, Pa.

Home, DeKalb street and Eighth street, Bridgeport, Pa. Architect, private plans. Owners, P. O. S. of A. Camp, No. 51, Bridgeport, Pa. Brick and concrete, 2 stories and basement, 30x60 feet, slag roof, concrete floors, garages on first floor. Contract awarded William Kelly, Bridgeport, Pa.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Erie County, R-87, Harbor Creek Town-

ship, Wesleyville Borough. Bridge, reinforced concrete. H. E. Bunce, Hornell, N. Y., \$27,241.56.

Erie County, R-86, Sec. 4, Fairview Township. Bridge over Walnut Creek. Concrete and steel. Pitt Construction Co., Pittsburgh, Pa., \$103,048.30.

Washington County, R-114, Sec. 1, North Franklin, Canton, Buffalo and Donegal Township. One course reinforced concrete and (1) bridge. Donora Construction Co., Donora, Pa., \$609,883.24.

Mifflin County, R-33, Granville and Oliver Townships. One course reinforced concrete. Sherman & Rhodes, West Field, Pa., \$299,792.22.

Greene County, R-111, Sec. 6, Sec. 7A, Centre and Franklin Townships. One course reinforced concrete, (3) bridges, (2) pony truss bridges. Tri-State Eng. Co., Cumberland, Md., \$416,522.83.

Hospital, Easton, Pa. Contract awarded Wm. Steele & Son, Southeast corner Fifteenth and Cherry streets, Philadelphia. Architect, The Ballinger Co., 12th and Chestnut streets, Philadelphia. Owner, Easton Hospital, H. Lehr, president, 1200 Butler street, Easton, Pa. Brick, reinforced concrete, steel, linoleum floors, steel iron work, safety treads, metal doors, steel sash, kalamein doors, hollow metal doors, metal partitions, excavation, hollow tile, rolling steel shutters, lockers, fire doors, cellized floors, screens, metal weather strip, caulking, tile, marble and terrazzo, imitation travertine, vitrolite floors, waterproofing, bond, built-up roof, slag roof, skylights, roof ventilators, iron stairs, area gratings, 4 stories, 200 x 38 feet, wing 41 x 36 feet; nurse home 153 x 33 feet, 3 stories, isolation, 1 story, 40 x 42 feet, boiler and laundry, garage building, 1 story, 102 x 42 feet.

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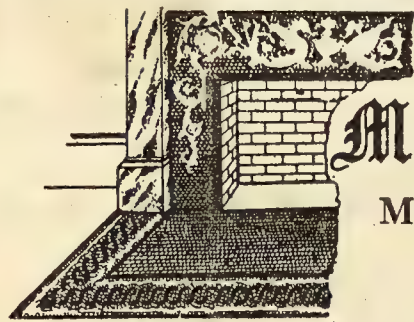
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Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Lancaster County, R-605, East Nottingham and Elk Townships: One course reinforced concrete. Graham Construction Co., Rothville, Pa. \$204,353.47.

Lancaster and Berks Counties, R-518, A-5581, Breknock Township: Grading and drainage. H. R. Miller Co., Lancaster, Pa. \$112,613.62.

Indiana County, R-68, Sec. R-3, White Township: One course reinforced concrete, grading and drainage (1) bridge. M. Bennett & Sons, Indiana, Pa. \$101,147.11.

Dauphin County, R-336, A-6641, Upper Paxton and Mifflin Townships. One course reinforced concrete (1) bridge. J. Miller Eshelman, Landisville, Pa. \$235,074.83.

New Jersey Construction News

Residence and Garage, \$10,000. Hackettstown, N. J. Plans in progress, too early for details. Architect, A. Oscar Martin, Doylestown, Pa. Owner, name withheld. 2½ stories and basement, brick, 26 x 40 feet.

Dormitory, Colony for Feeble Minded Males, Woodbine, N. J. Owners taking bids due Sept. 27 at 1 P. M. (E. S. T.) Architects, Division of Architecture and Construction, Chas. J. Leathem, director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, Wm. J. Ellis, commissioner, State House, Trenton, N. J. Note extension of time.

Grade School, \$43,500, to replace Powell Street School, Gloucester, N. J. Project approved. Owner, Board of Education, Gloucester, N. J.

School, Mantua, N. J. Sketches in progress. Architect, F. Herbert Radey, 428 Market street, Camden, N. J. Owners, Mantua Township School Board, Melvin Kirkbride, Clerk, Sewell, N. J. Brick, steel, 1 story, 6 rooms.

School (add.), Sewell, N. J. Preliminary plans in progress. Architect, F. Herbert Radey, 428 Market st., Camden, N. J. Owners,

Mantua Township School Board, Melvin Kirkbride, Clerk, Sewell, N. J. Brick, 1 story add., 2 rooms.

Mausoleum, Fernwood Memorial Park, near Bridgeton, N. J. Plans about completed. Architect, Oscar Schmidt, Chelsea Bank Building, Atlantic City, N. J. Owners, Fernwood Memorial Park Cemetery, care of architect. Reinforced concrete, granite, 1 story, 35x98 feet, slag roof, area gratings.

Municipal Auditorium and Pier, Wildwood Crest, N. J. Project subject to approval. Borough engineer, Harry Weir, Wildwood, N. J. Owners, Borough of Wildwood Crest, N. J.

Grade School (8 rooms), Westmont, N. J. Plans in progress. Ready for bids in 3 weeks. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Haddon Township School Board, J. R. Y. Blakely, President, Westmont, N. J. Brick, reinforced concrete.

Bank Building (superstructure), \$250,000. Paulsboro, N. J. Architect ready for bids in 3 weeks. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, First National Bank & Trust Company, Paulsboro, N. J. Brick, steel, concrete, 1 story and mezzanine basement.

County Jail (alts.), May's Landing, N. J. Owners will be ready for bids in a few days. Architect, S. Hudson Vaughn, Guardian Trust Building, Atlantic City, N. J. Owners, Atlantic County Commissioners, May's Landing, N. J. General alterations, waterproofing.

Apartment House, 19 South Pennsylvania avenue, Atlantic City, N. J. Architect will be ready for revised bids in a few days. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Charles F. Wahl, 33 South Pennsylvania avenue, Atlantic City, N. J. Steel, reinforced concrete, 6 stories, 150x130 feet, concrete roof, concrete, composition and pine floors, (3) elevators, safety treads, wood piling, waterproofing, cast stone, incinerators, ornamental iron, iron stairs, kalamain doors, steel sash, tile, marble, metal lath (heating, plumbing and electric separate).

Club Hotel (50 rooms), \$100,000. Medford Lakes in the Pines, N. J. Owner, care of C. Snellbaker, Medford Lakes, N. J., will build. Architects, Lackey & Hettle, 544 Federal

st., Camden, N. J. Owners, Medford Lakes Corporation, Leon E. Todd, President, 2623 Westfield avenue, Camden, N. J. Log cabin style. Work on first unit, to cost \$50,000, to start in a week.

Office and Printing Shop, Hightstown, N. J. Owners will take bids next week. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, G. P. Dennis, Hightstown Gazette, Hightstown, N. J. Brick, cinder block, 1 story, 30x85 feet, slag roof, maple floors, steam heat, electric light, steel sash and skylights.

Residence, Hightstown, N. J. Owner will take bids. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, E. Cottrell, Hightstown, N. J. Frame, 1½ stories, 28x50 feet, slate roof, hardwood and linoleum floors, steam heat, electric light, tile work.

Hotel, Spring Lake, N. J. Owners taking bids due September 28th. Architect, Warren H. Conover, 114 Liberty street, New York City. Owners, Hastings Square Hotel Co., Spring Lake, N. J. Brick and steel, 6 stories and basement, irregular, slag roof, cement and yellow pine floors, ornamental iron work (plumbing, heating, electric and elevators reserved).

Monument and Fire Escapes, Gloucester Park, N. J. Owners taking bids due October 3rd. Architects, Lackey & Hettle, 544 Federal street, Camden, N. J. Owners, Camden Park Commissioners, J. C. Remington, Camden, N. J. Old brick and limestone, bronze tablets, iron stairways.

Store Building (alts. and add.), 532 Federal street, Camden, N. J. Architects taking bids due September 27th. Architects, Lackey & Hettle, 544 Federal street, Camden, N. J. Owners, Bleakley Brothers, 532 Federal street, Camden, N. J. Brick, steel, concrete, 2 stories, 103x138 feet, slag wood roof, concrete floors, roof ventilators, waterproofing and damp-proofing, steam heating, electric light, tile work, steel sash, skylights, iron work.

Nurses' Home, Lakeland, N. J. Owners taking bids due October 2nd. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Camden County Board of Chosen Freeholders, L. H. Ewing, Court House, Camden, N. J. Brick, steel, 2 stories, 35x124 feet, 76x35 feet, slate roof, hardwood floors, safety treads, metal weather strip, waterproofing, flagstone, bluestone, heating extension, electric light, fire doors, bond, iron stairs, ornamental iron, brass pipe, area gratings. Bond, 100 per cent. Deposit, \$50 (returned). Certified check, 10 per cent.

School, West Atlantic City, N. J. Owners taking bids due October 3rd. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owners, Board of Education of Egg Harbor Township, James Brown, Secretary, McKee City, N. J. Brick, 1 story, 70x40 feet, slag roof, pine floors, roof ventilators, waterproofing, vapor heat, metal lath (heating, plumbing and electrical work separate).

Borough Hall, Williamstown, N. J. Owners taking bids due September 26th. Architect, Thomas Edward Ash, 10 South Eighteenth street, Philadelphia. Owners, Borough of Williamstown, N. J. Brick, cast stone, steel, 2 stories and basement, 70x36 feet (plumbing, heating, electric separate bid), metal lath, bond, ornamental iron work, slag roof, cement and yellow pine floors.

High School, Bridgeton, N. J. Owners taking bids due September 26th, 8 P. M. (Standard Time). Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Board of Education, Bridgeton, N. J. 3 stories and basement, 260x80 feet, wing 200x34 feet, metal lath, bond, ornamental iron work, slag roof, maple floors.

Dormitory (alts. and add.), New Jersey State Hospital for Insane, Greystone Park, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J.

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Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2 stories and basement, 61x60 feet, slag roof, metal lath, tile, marble, hollow metal doors, caulking, metal window guards. M. Milimet Co., Union City, N. J., \$266,000; Delaware Form Co., 1001 Chestnut street, Philadelphia, \$311,000. Plumbing, Buist & Son, New Brunswick, N. J., \$68,500. Heating, Buist & Son, New Brunswick, N. J., \$10,650. Electric, Commercial Electric Co., Newark, N. J., \$31,248.

School, Salem, N. J. Low bidders. Architect, Walter L. Custer, Bridgeton, N. J. Owners, Quinton Township School Board, Quinton, Salem, N. J. Brick and steel, cast stone, 2 stories and basement, 132x28 feet, 2 wings, 26x23 feet, asbestos shingle roof, yellow pine floors, concrete cement work, metal ceilings, metal lath, plastering, hollow tile work, damp-proofing, carpentry and mill work, bidder's bond, metal toilet partitions. General, C. J. Scully & Son, Wildwood, N. J., \$31,350; Camden Construction Co., Camden, N. J., \$32,900. Plumbing, W. H. Custer & Son, Salem, N. J., \$5,400. Heating, C. W. Richards Co., Bridgeton, N. J., \$4,907. Lighting, William Snell, Vineland, N. J., \$568.

Road Work. Route S-31, Section 1, from Culver's Lake to Hainsville, County, N. J. Owners taking bids due October 7th at noon (Eastern Standard Time). Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Earth excavation, rock excavation, borrow, reinforced concrete pavement, treated gravel shoulders, bituminous concrete, concrete foundation. Certified check, 10 per cent. Deposit, \$10.

New Jersey Contracts Awarded

Residence (add.), 222 West State street, Trenton, N. J. Contract awarded W. C. Ehret, Trenton Trust Building, Trenton, N. J. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owner, F. W. Roebling, Jr., on premises. Brick, 3 stories, 18x25 feet, tin roof, pine floors.

Store, \$7,500. 903 Brunswick avenue, Trenton, N. J. Contract awarded Samuel Litt, 828 Greenwood avenue, Trenton, N. J. Architect, private plans. Owner, Bessie Weinberg, care of builder. Brick, block, 1 story, 48x100 feet, slag roof, pine floors, electric light.

Residence, Riverton, N. J. Contract awarded Charles S. Moses, Edgewater Park, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, James M. Coale, Riverton, N. J.

Contract 30-8, Extension of Lighting System, Sec. 30, Gloucester City, N. J. Contract awarded Richter & Eshler, 111 Federal street, Camden, N. J., \$2,262. Owners, Park Commissioners, Wilson Building, Camden, N. J. Furnish, install 1 light standards.

Concrete Paving and Curbs, Gutters and Sidewalks, Camden, N. J. Contract awarded William Eisenberg & Son, Land Title Building, Camden, N. J., \$59,946. Owners, Camden County Commissioners, Camden, N. J.

Bridge, on Swedesboro-Hendrickson Bridge road, N. J. Contract awarded Just F. Erickson, Mantua, N. J., \$5,423. Architect, private plans. Owners, Gloucester County Board of Chosen Freeholders, Gloucester, N. J.

Bridge, Seville, N. J. Contract awarded D. S. Bader Construction Co., Mediterranean and Virginia avenues, Atlantic City, N. J. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Reinforced concrete.

Bridges (3), \$41,820. Route 44, below Gibbstown, Gloucester County, N. J. Contract

awarded Charles S. Moses, Edgewater Park, N. J. Architect, private plans. Owners, Gloucester County, N. J. Reinforced concrete.

Paving, \$79,772. Manahawken-Long Beach road, Ocean County, N. J. Contract awarded C. W. Mathis, Seaside Park, N. J. Architect, private plans. Owners, Ocean County, N. J. Concrete.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 8, Sec. 2, Yellow Frame to Fredon road, Sussex County. Consolidated Production Corporation, Hackensack, N. J., \$191,949.90.

Bridge, Route 6, Sec. 1, across Hackensack River at Little Ferry, Bergen County. Arthur McMullen Co., 50 Church street, New York City, \$234,005.50.

Borings, Route 25, Contract 28, from Broadway, Jersey City, to Lincoln Highway, Newark, Counties of Hudson and Essex. Osborn Drilling Co., 122 Greenwich street, New York, \$8,342.

Route S-1A, Sec. 1, from Route 5 to Le-moine Avenue Extension, Bergen County, N. J. Earth excavation, rock excavation, borrow, reinforced concrete pavement. George M. Brewster, Bogota, N. J., \$102,505.21.

Miscellaneous Construction News

Store (alt. and add.), New Rochelle, N. Y. Plans in progress. Ready for bids in two weeks (general). Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, Ferguson's Market, New Rochelle, N. Y. General alterations for restaurant, soda fountain, etc., dumb waiter, tile, marble and terrazzo, bronze metal bulks, ornamental plastering, store fixtures, kitchen equipment.

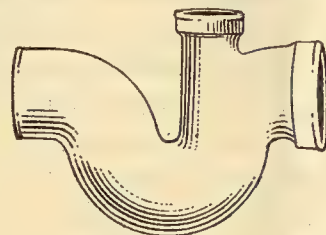
School Building (add.), Richardson Park, New Castle County, Del. Owners taking bids

due October 3rd at 1.30 P. M. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, State Superintendent, County Building, Wilmington, Del. Brick, concrete, timber roof construction, 2 stories, 119x61 feet, steel, iron, painting, carpentry, masonry (plumbing, heating, ventilating and electric work separate). Certified check, 5 per cent. Deposit, \$25 (refunded).

Grade and High School, New Castle, Del. Low bidder: Richardson & Luce, 1524 Chestnut street, Philadelphia, \$159,747. Plumbing, heating and ventilating: T. T. Weldin & Sons Co., 916 Orange street, Wilmington, Del., \$33,500. Electric: Electric Service Co., 706 West Fourth street, Wilmington, Del., \$4,200. Architects, Guilbert & Betelle, Newark, N. J. Owners, School Building Commission for the New Castle School District, State House, Dover, Del. Brick, limestone, steel, 2 stories and basement, 245x107 feet (plumbing, heating, electric separate bids), slag and slate roof, wood roof, deck, maple floors, cement floors, safety treads, metal weather strip, caulking, waterproofing, tile and marble work, rolled steel skylights, kalamein doors, bond, iron stairs, mastic tile floors, rubber stone floors, reinforced concrete, soapstone, blue-setone, cement, metal lath, dampproofing.

State Highway Work, Delaware. Owners taking bids due October 15th at 2 P. M. Owners, State Highway Department, Dover, Del. Contract 139, truck storage shed, State Road garage. Contract 103-B, Newport Bridge approaches, 889 feet. Excavation, borrow, concrete pavement, bituminous expansion joint, asphalt, metal pipe. Certified check, 10 per cent. Deposit, \$2.

Neuropsychiatric Ward, Washington, D. C. Owner taking bids due Oct. 5th. Architect, private plans. Owner, U. S. Veterans' Bureau, U. S. Government, Washington, D. C. Brick, limestone, steel, 3 stories and basement, 203 x 121 feet, steam heat, electric



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Stables, Concord, N. H. Architect taking bids due Sept. 25th. Architect, Charles Z. Klauder, 1529 Walnut street, Philadelphia. Owner, St. Paul's School, Concord, N. H. Brick, stone.

Proposal

Sealed and separate bids or proposals will be received by the Board of School Directors of the School District of the City of York, Pennsylvania, for the erection of an East End Junior High School on the plot of ground located in Elmwood, Spring Garden Township, York County, Pennsylvania, bounded as follows: on the north by Fourth Avenue, on the south by Fifth Avenue, on the east by Ogontz Street, on the west by the city line, which is also Hill Street. The proposals must be submitted separately for the general construction of the building, plumbing and drainage, electrical work and heating and ventilating, all in accordance with plans, drawings and specifications prepared by Robert A. Stair, Registered Architect, Guardian Trust Building, 100 East Market Street, York, Pennsylvania; also proposals for grading the site and construction of the sanitary sewer and a storm water sewer. A certified check equal to 5% or an acceptable Surety Company bond equal to 10% of the aggregate amount of the bid must accompany each proposal to guarantee acceptance of the contract if awarded.

An acceptable Surety Company bond equal to the full amount of the contract will be required of the successful bidders. An additional bond of an acceptable Surety Company will be required in accordance with the Act of Assembly of the Commonwealth of Pennsylvania approved May 6, 1925, P. L. 546, being Act No. 292 of said year, as amended by the Act of Assembly approved March 28, 1929, being Act No. 114, for the purpose of providing for the payment of all labor and material entering into the said improvements and all machinery used on such improvement.

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Drawings and specifications are on file at the office of the Architect and at the office of the Secretary for the information of intending bidders.

Copies of the drawings, specifications, etc., may be obtained from the Secretary at the Central School Building, York, Pennsylvania, upon making a deposit of \$30.00 for each set, which amount will be refunded only when the drawings and specifications are returned in good condition accompanied by a proper bid for the work for which they were obtained.

All bids must be signed, sealed, properly marked with name of contract bid upon and delivered to David N. Crider, Secretary, Central School Building, York, Pennsylvania, not later than 8.00 o'clock P. M., Thursday, October 10, 1929.

The right is reserved to reject any and all bids.

J. W. RICHLEY,

Chairman of the Committee on Buildings, Grounds and Fuel of the Board of School Directors of the School District of the City of York, Pennsylvania.

PHILADELPHIA ARCHITECTS HONORED BY APPOINTMENTS

American Institute of Architects Announces Personnel of Important Committees

The Annuary of the American Institute of Architects just off the press shows that singular recognition has been given to the abilities of Philadelphia architects. In preparation for the fall activities just opening on a national scale, the various Committees of the Institute will begin to function. Rendering service on many of these Committees will be found the following Philadelphians who have been selected for this work by President C. Herick Hammond of Chicago and whose appointments have been confirmed by the Board of Directors of the Institute.

On the Standing Committees:

Allied Arts—Charles L. Borie, Jr.
Building—Horace Wells Sellers.

Education—C. C. Zantzinger, who has also been appointed as Chairman of the Sub-Committee on Architectural Education.

Public Information—for the three year term, D. Knickerbacker Boyd.

Practice—George I. Lovatt.

Structural Service Department—C. L. Borie, Jr.

On the Special Committees:

Historic Monuments and Natural Resources—Horace W. Sellers.

National Capital—John Hall Rankin.

Foreign Relations—Frank R. Watson.

Sub-Committee on Exhibitions—W. L. Plack.

Industrial Relations—John Irwin. Bright.

Constitution and By-Laws—George I. Lovatt.

Honor Awards—John P. B. Sinkler.

Hospital Exhibition—H. Bartol Register.

These committees are independent of the several Committees of the Philadelphia Chapter of the Institute which have been functioning all summer and whose activities will be expanded during this month to tie up with many civic as well as architectural matters.

Skyscrapers 2000 feet or 2-5 of a mile in height are structurally possible, although the economic height is much less, according to a study just completed for the American Institute of Steel Construction. This study of building height has been in progress for the past two years under the direction of W. C. Clark, Chief Economist and Vice President of S. W. Straus & Co. It was made for the Institute by independent research for the purpose of providing unbiased proof that tall buildings in congested centers are economically advisable. The report found that buildings of 75 stories in height are not only economical but under certain conditions will return more on the investment than a building of 50 stories or 30 stories in height.

These conclusions were based upon investigations made upon specific plans for various buildings of varied height drawn by J. L. Kingston, architect of the staff of Warren & Wetmore. In making the studies the cooperation of numerous experts was enlisted, such as Stephen F. Voorhees of Voorhees, Gmelin & Walker; R. H. Shreve of Shreve & Lamb; David Lindquist, Chief Engineer of the Otis Elevator Co.; S. F. Holtzman and David C. Coyle of Gunvald-Aus, Consulting Engineers; Levering & Garrigues and McClintic-Marshall, steel fabricators; Otto Goldschmidt, Consulting Engineer and expert on mechanical equipment; Hatzel & Buehler, electrical contractors; W. G. Cornell Co., plumbing, and in the building managers and rental field such experts as Lee Thompson Smith, Clarence T. Coley and William C. Demorest.

The problem which this investigation attempted to solve has been outlined in the final report in the following words:

"Probably no question before the public today is of more interest and importance to the dwellers in our American cities than the current controversy over the regulation and limitation of building height. Certainly it is difficult to think of any public issue whose decision, whether in the one direction or the other, is likely to exert so important an influence upon

so many phases of the average urban dweller's daily life. For the skyscraper controversy raises the whole problem of the physical structure of our cities. The efficiency of that structure will be reflected in the citizen's pocketbook through its effect on rents, incomes and taxes; its character will go far to determine where and under what conditions he lives and works, his goings and his comings, his expenditure of time and even to a large extent his social relationships. Broad questions of public health and safety may also be involved. If the daily round of life is so largely dependent upon the correct answer to this problem of city structure, it is imperative that the average citizen should be given the facts which will enable him to reach an intelligent conclusion upon the points at issue.

"Few public questions are now being debated with more heat and more persistence. At the one extreme we have a group of critics, chiefly city planners of the more doctrinaire type, who are bitter and extravagant in their criticism of the skyscraper, who find in it the source of most of the evils in our city life and who advocate a definite restriction of building height to a maximum of eight or ten stories. At the other extreme is a school of protagonists who are enthusiastic and even lyrical in their praise of the skyscraper, who see in it both a necessary result of American conditions and a characteristic product of American genius, and who protest against any attempt to restrict or regulate its development. Ranging between these two extremes are individual thinkers who are willing to see both sides of the question, who appraise pros and cons on the basis of their individual experience or such facts as happen to be available to them, and who favor moderate programs of restriction or regulation based on their individual appraisals of merits and defects. As usual, however, it is the extremists who are most vocal and, in the face of their vague generalities and conflicting claims, the average citizen stands confused and confounded.

"It will be enlightening to recall at the start that this public controversy over the skyscraper is by no means a new phenomenon; with more or less vehemence it has raged almost continually since the completion of the Tacoma Building in the city of Chicago about forty years ago ushered in the era of the skeleton steel frame building which is the true skyscraper. But an examination of the literature of the subject reveals an interesting story of how the battle front has shifted from time to time. In the early days, the attack was directed chiefly against the strange and unsightly character of these tradition-breaking 'monstrosities' which dared to raise their heads to the dizzy height of 12 or 16 stories, against the way in which they 'disfigured'

the streets and against the possibilities of catastrophe involved in 'the collapsing of one of these monster structures on a crowded street.' In these attacks one recognizes, in part at least, the eternal prejudice against 'the new,' the same prejudice which a little over a century ago led the English farmer to fight the introduction of the iron plow with all sorts of dire, fantastic prophecies and less than a century ago caused the doctors of a leading German city to prepare a weighty professional protest against the proposal to bring the railroad to their city on the ground of the danger to the health not only of those who dared to ride in the new fangled device but also of those unfortunate citizens who could hardly escape injury to health from observing the trains as they raced through the countryside at the fantastic speed of 20 miles an hour. Later on in the attack on the tall building, as the civic consciousness became more sensitive to the slum problem, the critics increasingly emphasized the shutting off of light and air and the consequent unfavorable effect upon public health. In the last few years, with traffic conditions becoming almost intolerable in our leading cities, the skyscraper has proved a plausible scapegoat for this particular evil, and the 'congestion' argument has consequently become the chief stock-in-trade of the conscientious objectors to tall buildings *per se*.

"But while in the public mind today the strongest count in the indictment of the skyscraper is probably its alleged influence in increasing traffic and population congestion, there is another argument which demands prior consideration for reasons to be discussed later. This is the contention that the tall building is an economic fallacy,—that even from the private owner's point of view it does not 'pay' and therefore should not be per-

mitted. Now the solicitude of the critic for the poor building owner who foolishly insists on putting his money into unprofitable investments is somewhat amusing and hardly consistent with the claim that the latter is a robber of values that rightfully belong to others, that he who is allowed to build a tall building is given an economic advantage which should be compensated for by heavier taxation, etc. However, if we are willing to overlook such patent inconsistencies, we will recognize in this 'economic fallacy' argument an ingenious flank attack upon the position of the skyscraper enthusiast.

"Indeed, if this one point could be proved, the whole battle against the skyscraper would be won. Obviously, if it can be conclusively demonstrated that tall buildings as a class are unprofitable or less profitable than low buildings, investors will cease to erect such structures and legislators will not hesitate to discourage them. If the tall building *per se* involves the sacrifice of private rights, the courts will be apt to interpret the police power for zoning purposes much more liberally than otherwise. Arguments based on 'light and air' protection, 'fire hazard' or 'traffic congestion' will be largely works of supererogation. On the other hand, if the tall building is found to be the most economical development of the central business sites of our leading cities, private owners will strenuously oppose any drastic confiscation of their property values and public opinion, the legislatures and the courts will back them up, except to the extent that a sound and reasonable exercise of the police power may require regulation in the obvious interest of public safety, health and morals. In other words, economic considerations will be the determining factor in this as in other fields of human progress. Society is willing to submit to reasonable regulation to

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reduce as much as possible the wastes and pains of progress; it is unwilling to see progress in a given direction blocked altogether."

Assuming that the land value is \$200 per square foot the investigation showed that a building of 63 stories in height reaches the point of maximum economic returns. From a detail investigation of an 8-story building costing \$22,193,000 to build the net return was found to be but 4.22%. In other words the higher land value makes such a low building unprofitable. The return on a 63-story building was found to be 10.25%. Where the land value is \$400 a square foot a building of 75 stories in height was found to be most economical. These conclusions were reached upon the supposition that the construction of the building would be restricted by the zoning laws of New York City applying to the mid-city sections.

The report notes:

"This maximum *economic* height is of course much below what might be called the maximum *physical* or *engineering* height. For all practical purposes, this physical or engineering limitation upon possible building heights has been removed by the flexibility of structural steel, terra cotta and other modern building materials and by the astounding developments in elevator and foundation engineering. Competent students of the problem estimate that if it were not for economic factors, it would be possible to erect, and operate successfully, an office building approximately two thousand feet in height. The adequate elevator servicing of such a structure would require an elevator speed beyond the present legal limits as well as new safety devices and ingenious traffic arrangements (such for instance,

as doubledeck cabs and new combinations of express and local cars) which have not yet been subjected to the test of actual public trial but which, on the basis of prolonged experiment, the foremost elevator engineers believe to be entirely practicable. The two limiting factors which make it impracticable to go beyond the approximate height of 2000 feet are (1) the enormous weight of the elevator cables required, and (2) the capacity of the *average* human ear drum to withstand the vibration in an elevator cab travelling at a speed exceeding approximately 1500 feet per minute."

A study of the economic possibilities requires the careful consideration of various factors which enter into the physical construction, the rental outlook and the restriction laws surrounding skyscrapers. Among the important factors noted in the investigation were the following:

1. Value of the land
2. Size and shape of plot
3. Legal restrictions
4. Efficiency of architectural design and layout
5. Building factors showing tendency to increase in cost as height is increased
 - (1) Structural steel
 - (2) Elevators
 - (3) Brickwork
 - (4) Plumbing and water supply
 - (5) Heating and ventilating
 - (6) Electric light and power wiring
 - (7) Total mechanical equipment
 - (8) Permanent interior partitions
 - (9) Windows and glazing
6. Building factors showing tendency to decrease in cost as height is increased
 - (1) Roofing
 - (2) Excavations and foundations
 - (3) Miscellaneous

7. Building factors showing tendency to constant cost of all heights

- (1) Interior finish
- (2) Concrete floors
- (3) Exterior finish

8. Absorption of rentable area by elevators and other service facilities

9. Level of construction costs

10. Variations in rental value of floors at various heights

11. Variations in operating costs at various heights

The full report of the investigation will be published by the American Institute of Steel Construction in book form within a few weeks. This will include the details of the studies made together with all the tables of calculations proving the results. The work was monumental in its conception and has required a little more than two years for its completion.

It is felt that the effort has been well spent because this report will finally put to rest the innumerable incorrect statements which have been circulated regarding the economics of skyscrapers.

ADVISORY COUNCIL FOR FARM BUILDINGS MEETS

Hopes Structures Can Be Standardized with Result of Cheaper Production and Better Marketing

The Advisory Council of the Farm Structures Research Survey appointed by Secretary Arthur M. Hyde of the United States Department of Agriculture, to work in cooperation with Henry Giese, agricultural engineer of the Bureau of Public Roads of the Department of Agriculture and director of the survey, held its first meeting on August 27 in Washington and adopted a program prepared by Mr. Giese. The council consists of representatives of trade and agricultural organizations and departments and bureaus of the Federal Government interested in farm structures. The survey is being made upon the request of the American Society of Agricultural Engineers.

The program contemplates a study of the present status of research as it pertains to farm structures, and a study of a report of existing conditions together with a plan for stimulation and coordination of research investigations. The director will make contacts with agricultural and engineering colleges, with State Departments of Agriculture, with specialists in the Federal Government, and with industrial organizations and trade associations, in an effort to obtain any research data they may have as a result of studies of the subject. From the information obtained the director will make a report to the council and the report will be published.

It developed in the meeting that manufacturers are handicapped by lack of information on fundamental requirements



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of farm structures. From existing data, which is largely accumulated opinion without scientific basis, it is difficult to obtain actual facts. Farm buildings recommended by various State authorities vary so widely as to type that manufacturers are at a loss to know how to meet the requirements. It is thought that if some measure of standardization can be brought about, at least within sections of the country subject to the same climatic and other conditions, the manufacturer's problems would be greatly simplified and the cost to the farmer reduced.

Structures represent the largest single item of investment the farmer has aside from his land; in the United States they represent some \$11,750,000,000. Apart from the features of beauty and harmony in buildings, the suitability of farm structures to their uses is closely related to agricultural economic welfare. From studies already made it has been found that milk flow is affected by barn temperatures, that egg production depends largely upon the comfort of the fowl, that the kind of storage affects the market grade of corn and small grains and hence affects the returns received by the farmer, and that good storage is an important factor in the order and therefore profitable marketing of horticultural products.

Through intelligent planning of buildings for housing agricultural commodities and for giving good care to animals and fowl, the advisory council hopes that as a result of the survey the cost of building construction may be reduced and the value of stored products increased, thus contributing to a lowering of the costs of production and placing farm products on the markets.

Members of the council attending the meeting were: W. G. Kaiser, president, and J. L. Strahan, of the American Society of Agricultural Engineers, Mr. Kaiser also representing the Portland Cement Association and Mr. Strahan the National Association of Farm Equipment Manufacturers; J. W. McBurney, of the Common Brick Manufacturers' Association of America and research associate, U. S. Bureau of Standards; Mrs. Margaret

Robinson, of the National Grange; F. P. Cartwright, chief engineer, and J. P. Quinlan of the National Lumber Manufacturers' Association; Stanley A. Knisely, director of research, sheet metal trade extension committee of the National Association of Flat Rolled Steel Manufacturers; S. H. McCrory, chief, and M. C. Betts, senior architect, and Mr. Giese, engineer, of the division of agricultural engineering, Bureau of Public Roads, U. S. Department of Agriculture.

The full membership of the council represents the American Farm Bureau Federation; the American Society of Agricultural Engineers; the National Lumber Manufacturers Association; the Portland Cement Association; the sheet steel trade extension committee of the National Association of Flat Rolled Steel Manufacturers; the Common Brick Manufacturers' Association; the Farmers' Educational and Cooperative Union of America; the National Association of Farm Equipment Manufacturers; the National Grange; the Structural Clay Tile Association; and departments and bureaus of the Federal Government.

The great national importance of heating and ventilating to modern life and the absolute dependability of every character of building upon these two industries will be emphasized at the First International Heating and Ventilating Exposition to be held in the Commercial Museum, Philadelphia.

While it is a matter seldom given more than a passing thought, buildings without heat and ventilation would be useless.

It was with this thought and the desire to demonstrate to the world the marvelous evolution in scientific thermal advancement made in recent years that prompted the American Society of Heating and Ventilating Engineers to hold an exposition during the period of the society's 36th annual meeting in Philadelphia, January 27th to 31st next.

These men of science who have passed through the trying years from the introduction of vacuum and vapor heating and air conditioning to the development of the

unit heater, the unit ventilator and light weight non-ferrous heating surfaces, are anxious to present in exhibition form the pioneering and present day record of the industry's activities and progress.

Electrical interests are experimenting in the field of house heating; room cooling units are an accomplished fact; panel heating is about to be given a trial; oil and gas interests are vieing with each other to improve their status and in the coal fields rapid strides are being made to simplify heating operation and reduce costs.

All of these interests will be represented at the Heating and Ventilating Exposition and all of these subjects will bring to the show exhibits beneficial alike to heating and ventilating engineers, architects, contractors, building owners and managers, home owners, builders and those allied with the building industry.

Products which will be shown, as indicated by space already reserved, include every type used in heating and ventilating; the boilers and furnaces in which combustion is performed, equipment using air, water or other heated fluids for the transfer of heat systems used to distribute the heat and the radiators for diffusing it to create comfort for human, animal and plant.

This range of equipment will include that which is used in the individual home as well as in the industrial plant.

In this scheme of things there fits in a great complexity of apparatus, equipment, instruments, devices and products:

Refractories, insulating materials, blowers, fans, air conditioning and humidifying equipment, pipe and piping systems, pipe fittings, unit heaters and all the control and regulating apparatus and instruments used at any stage in the generation of heat, cooling and ventilating.

This list contains only a limited idea of the types of equipment to be shown and does not include any of the supplemental or auxiliary material and apparatus.

Thus it will be seen that from the great diversified field to be covered, the heating and ventilating exposition should have a nation-wide appeal, interesting, in-

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structive and beneficial.

President Thornton Lewis of the American Society of Heating and Ventilating Engineers has announced the following exposition committees: Advisory committee: H. P. Gant, chairman, York Heating and Ventilating Corp.; A. S. Armagnac, Heating and Ventilating Magazine; D. S. Boyden, Edison Electric Illuminating Co., Boston; W. H. Carrier, Carrier Engineering Corp.; A. C. Edgar, Certified Heating Assn., Inc.; Roswell Farnham, Buffalo Forge Co.; C. V. Haynes, Hoffman Specialty Co.; E. B. Langenberg, Langenberg Mfg. Co.; J. I. Lyle, Carrier Engineering Corp.; F. J. McIntire, United States Radiator Corp.; H. C. Murphy, Reed Air Filter Co.; F. R. Still, American Blower Co.; E. K. Webster, Warren Webster Co., and H. L. Whitelaw, American Gas Products Co.

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Charles F. Roth, with offices in Grand Central Palace, New York City, is manager of the exposition.

CUBIC CONTENTS OF BUILDINGS

Discussion of methods of cubing the contents of buildings arises occasionally and a variety of opinions have been expressed at different times. The latest method approved by the American Institute of Architects is set forth in their document No. 239, which gives a standard method of calculation and form of statement. This is the method accepted in the competition code and as it has been prepared with care and represents the combined opinion of many architects, it may be accepted as a good standard.

Definition of "Standard Cubic Contents"

The cubic content (cube or cubage) of a building is the actual cubic space enclosed within the outer surfaces of the outside or enclosing walls and contained between the outer surfaces of the roof and six inches below the finished surfaces of the lowest floors.

Interpretation

The above definition requires the cube of dormers, pent houses, vaults, pits, enclosed porches and other enclosed appendages to be included as a part of the cube of the building. It does not include the cube of courts or light shafts, open at the

top, or the cube of outside steps, cornices, parapets, or open porches or loggias.

Supplementary Information

The following items shall be listed separately:

(a) Cube of enclosed courts or light shafts open at top, measured from outside face of enclosing walls and from six inches below the finished floor or paving to top of enclosing walls.

(b) Cube of open porches measured from outside face of wall, outside face of columns, finished floor and finished roof.

It is recommended that the following items also be listed separately:

(a) Square foot area of all stoops, balconies and terraces.

(b) Memoranda, or brief description, of caissons, piling, special foundations, or features, if any.

Explanation

The above specification of "Standard Cubic Contents" is adopted as a method of conveying exact basic facts about a given building to all interested so that they may be subject to verification without misunderstanding. The basic facts should be the same to all. Each will use the figure in his own way. Valuations per cubic foot will vary with classification of the building, with quality as specified or executed, according to the judgment and purpose of the individual appraiser.

Examples

Cubic contents of buildings shall be stated clearly in form suggested by the following examples:

Office Building of Mr. Blank at Blank Address

	Cu. Ft.
Standard cubic contents	1,750,000
Supplementary information	
Allowance for caisson foundation	150,000

Residence of Mr. Blank at Blank Address

	Cu. Ft.
Standard cubic contents	18,500
Supplementary Information	
Open porches	1,500
	Sq. Ft.
Terraces	200

—Architecture and Building.

NEW HOTEL BUILDINGS BUY AIR CONDITIONING

Big Enterprises, Like Theatres, Find Cooling and Ventilating Pay Nicely at Box Office

New hotel enterprises in cities throughout the United States are becoming even greater buyers of mechanical ventilation and air conditioning than the theatres and department stores, according to a survey conducted by building engineers who have been watching the influence of air cooling and scientific air control on American architecture.

With the average American traveler and commercial salesman more "air or ven-

tilation conscious" than ever, as a result of the educational campaigns waged by the theatres and some of the big stores, most of the hotels have found that the comforts of air conditioning are as imperative for new business as central heating systems and proper lighting.

The torrid heat of July, August and early September emphasized more than ever the need for systematic air cooling in many hostelrys. One of the most prominently known of the hotel chain companies, for example, found that double and triple windows were not sufficient to cool off guest rooms on the hot days and nights and, lacking air cooling systems in all but two of its eastern hotels, bought thousands of desk fans which were sent to guests when they complained about the heat.

Giant hotel buildings recently constructed in Seattle and other cities in the state of Washington conducted aggressive newspaper advertising campaigns directing public attention to the comforts of air conditioning provided in all sleeping rooms. Under the caption, "Weather—Made To Order," a luxurious new hotel just completed in Spokane advertised in newspapers throughout the state this soothing message:

"Day and night, the atmosphere in our lobby and dining rooms and sleeping chambers is delightfully cool, pure and invigorating. In fact, the weather is manufactured—for the health, comfort and enjoyment of our guests and visitors. Ventilation is by our automatic washed air system, which constantly changes the atmosphere throughout the entire building. The hottest days of summer are made as mild and balmy as in May."

The advantages of air conditioning are not confined, however, to cooling during the hot weather, but has its important uses in all seasons because of scientific control of humidity with temperature and the fact that it washes all dirt, dust and odors from the air, the building experts point out. Thus, too, the extreme dryness of heat is prevented during the cold spell.

Significant of the trend, also, is the fact that the Michigan state attorney general recently ruled that well ventilated rooms in hotels may be legally demanded by the state. The law specifies that all rooms must have ventilation from the outside, either through direct access, a court or mechanical means. The act is not broad enough to force hotels to give all rooms outside positions, but adequate ventilation can be required. Similar statutes prevail in many other states.

The building engineers declare, however, that economic law, rather than legislation written in the books, is driving new hotel buildings to the installation of mechanical ventilation and air control. Like the theatres these added comforts find an immediate reflection in the box office.

Reference Directory for Architects, Builders and Owners

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Metalweld, Inc. . . . 26th and Hunting Park Ave., Phila.

AIR COMPRESSORS FOR HIRE

Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.

AIR WASHERS

Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS

Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.

ART MARBLE

DeGiuseppe Art Marble Co. . . 818 N. 48th St., Phila.
Pigeon, Ernest A. 4231 Filbert St., Phila.

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Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES

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Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

ASBESTOS SHINGLES

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Blue Print Shop 1520 Sansom St., Phila.
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Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

BOILER AND PIPE COVERING

Livezey, John R.,
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Cox, Janeway & Co. . . . Real Estate Trust Bldg., Phila.
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BUILDERS

Mitchell Bros. 2125 Race St., Phila.
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N. E. Cor. 13th and Chestnut Sts., Phila.

BUILDING MATERIALS

Strathmann, Henry E.,
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BUILDING TRADES INSTRUCTION

Wanamaker Institute. . . . 23rd & Walnut Sts., Phila.

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Huskey Mfg. Co. Columbia and Howard Sts., Phila.

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CASEMENTS (Window or Door)

Depett Casements. 1530 Chestnut St., Phila.

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Malia, Thos. J. 226-32 W. Mentor St., Phila.

CAST STONE

New Jersey Cast Stone Co. Vineland, N. J.

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D'Lauro, John 7732 Ardleigh St., Phila.
Massiah, Frederick. Juniper and Cypress Sts., Phila.

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Livezey, John R.,
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COLUMNS (Metal)

Pearce Fireproof Co. 1911 N. 2nd St., Phila.

CONCRETE WORK

Massiah, Frederick. Juniper and Cypress Sts., Phila.

CORK TILE

Livezey Linoleum Floors, Inc. . 128 S. 19th St., Phila.

CURBING

Graham, Frank C. 314 S. Camac St., Phila.

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Building News Pub. Co. . . . 1530 Chestnut St., Phila.

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FENCES

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Pigeon, Ernest A. 4231 Filbert St., Phila.

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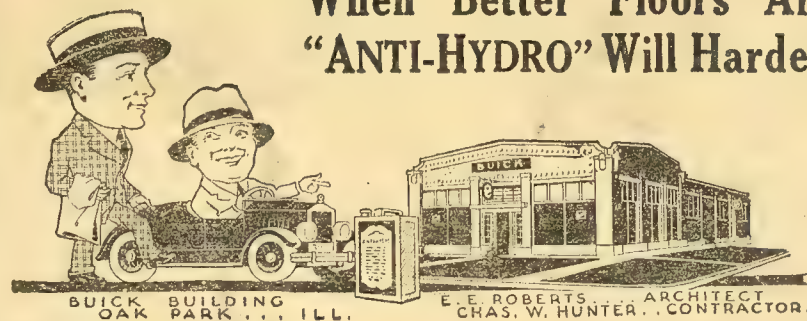
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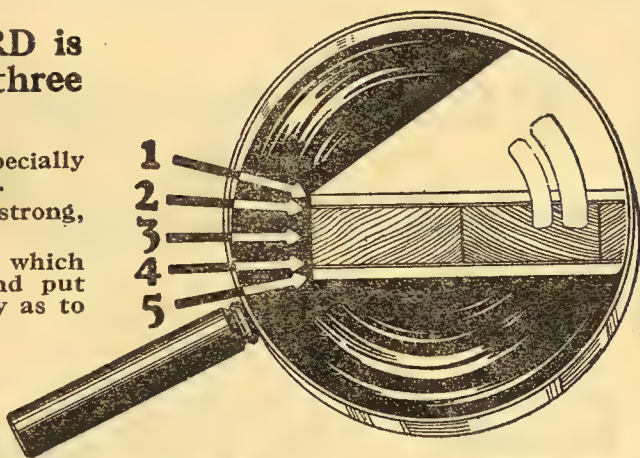
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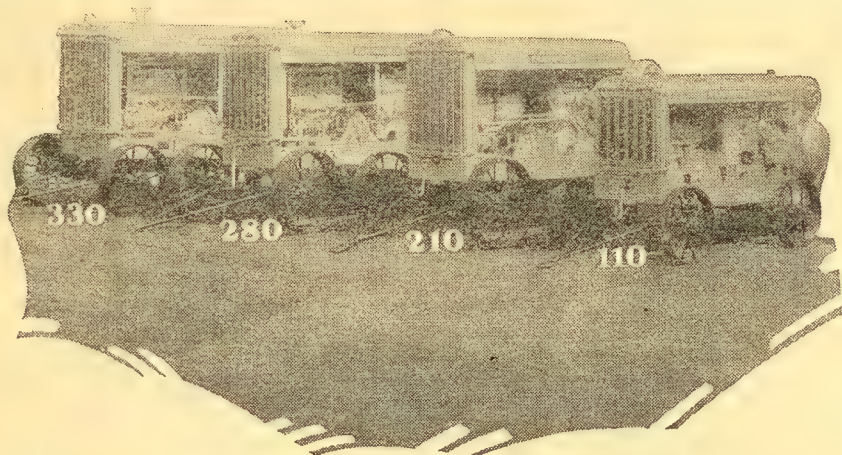
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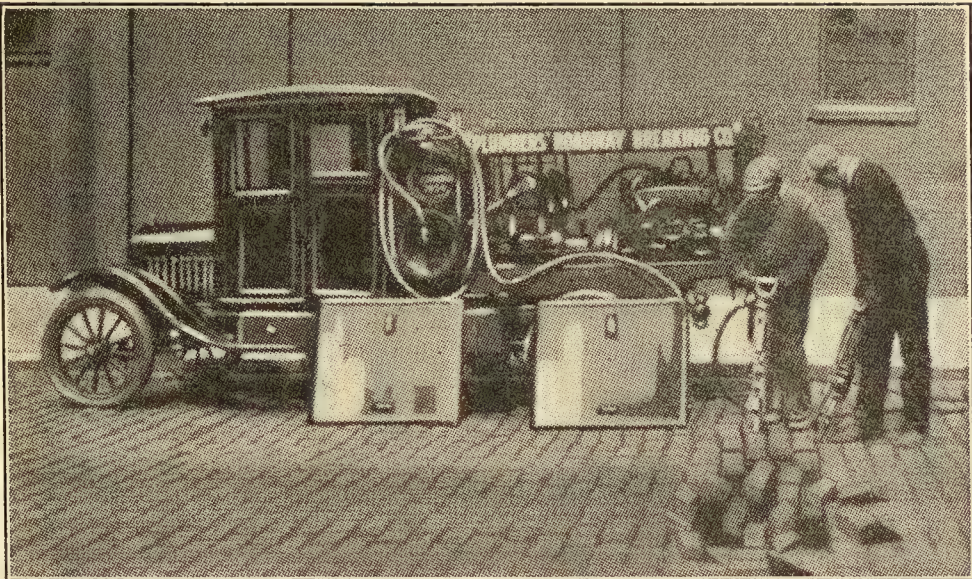
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Devoted to the Advancement of American Architecture, Structural
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VOLUME XLIV
Number 40

PHILADELPHIA
October 2, 1929

BUILDERS' GUIDE

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BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office Building, Southwest Corner Fifth and Walnut streets, Philadelphia. Plans in progress. Architect, John H. & Wilson C. Ely, 605 Broad street, Newark, N. J. Owners, Firemen's Insurance Co., Neil Bassett, President, 10 Park avenue, Newark, N. J. Details undecided.

Office Building and Stores, Southeast Corner Eighth and Sansom streets, Philadelphia. Plans in progress. Architect, Ralph Bencker, Northeast Corner Thirteenth and Chestnut streets, Philadelphia. Owner, name withheld. Brick, steel, concrete, 4 or 6 stories, 90x90 feet, steam heat, electric, slag roof, maple and cement floors.

Club House, \$45,000. Germantown avenue, above Willow Grove avenue, Philadelphia. Plans in progress. Architect, John Graham, Jr., 10 South Eighteenth street, Philadelphia. Owners, Venetian Social Club, Andrew O'Neill, President, 127 East Mermaid Lane, Philadelphia. Brick and steel, 3 stories and basement, 50x75 feet, steam heat, electric light, slag roof, yellow pine floors, cement floors.

Art Theatre (seating capacity 750), 251 South Eighteenth street, Philadelphia. Plans in progress. Will take bids early in 1930. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Philadelphia Art Alliance Co., Colonel S. Price Wetherill, Jr., on premises.

Service Station, 1631-33 Hunting Park avenue, Philadelphia. Plans in progress. Owners will build. Architect, private plans. Owners, Standard Oil Company, Mr. Holler, Public Ledger Building, Fifth and Chestnut streets,

Philadelphia. Hollow tile, stucco.

Junior High School, Thirty-second and Tasker streets, Philadelphia. Owners ready for bids in three weeks. Architect, Irvin T. Catharine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, City of Philadelphia, Nineteenth and Ludlow streets. Brick, concrete, limestone, 4 stories, 291x320 feet.

Elementary School, Fifth and Fitzwater streets, Philadelphia. Owners ready for bids in 3 weeks. Architect, Irvin T. Catharine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, City of Philadelphia, Nineteenth and Ludlow streets. 3 stories, 185x130 feet, brick, steel, limestone, concrete.

Residences and Garages (35), Uber street, above Olney avenue, Philadelphia. Owner will build, taking sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Thomas Kiely, Nineteenth and Olney avenue, Philadelphia. Brick, 2 stories and basement, 15x40 feet, hot water heat, electric, metal lath, tile, slate and tin roof, oak and yellow pine floors.

Service Station, Frankford avenue and Le-vick street, Philadelphia. Owners will build. Architect, private plans. Owners, Pure Oil Co., 1210 Widener Building, Philadelphia. Brick and hollow tile and stucco work, 1 story, 12x18 feet, electric light, tile roof.

Bank, Southwest Corner Torresdale and Longshore avenue, Tacony, Philadelphia. Architect ready for bids in two weeks. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owners, Northeast Tacony

Bank & Trust Co., C. N. Titus, President, Frankford and Oxford avenues, Philadelphia.

Residences (21), Venango and Miller streets, Philadelphia. Owner taking sub-bids. Architect, Herman Kline, Bulletin Building, Philadelphia. Owner, Paul Kolber, 525 Integrity Building, Philadelphia. Brick, 2 stories, 17x81 feet, hot water heat, slag roof, electric light, tile, hardwood and pine floors.

Residences (5), Vernon road and Thuron street, Philadelphia. Owners taking sub-bids. Architect, private plans. Owners, Thuron Construction Co., 56 West Rittenhouse street, Germantown. Stone, 2½ stories, 28x34 feet, hot water heat, tile, slate roof, hardwood floors.

Bank and Office Building, Broad and Columbia avenue, Philadelphia. Architect taking bids due October 4th. Architect, Paul Cret, Otis Building, Philadelphia. Owners, Integrity Trust Co., Wallace Hart, Sixteenth and Walnut Sts., Phila. Brick and limestone, reinforced concrete, 10 stories and basement, 54x118 feet, steam heat, electric light, metal lath, tile, marble, hollow metal sash, bond, iron stairs, ornamental iron work, bronze work, area gratings, cinder concrete block, Barrett specification roof, concrete roof deck, cement floors, elevators, caulking, waterproofing, demolition, excavation, imitation travertine, metal doors, metal toilet partitions, plumbing.

New Hospital Building (alts. and add.), Dispensary Building, Powelton and Saunders avenue, Philadelphia. Architect taking bids October 8th. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Presbyterian Hospital, on premises. Brick,

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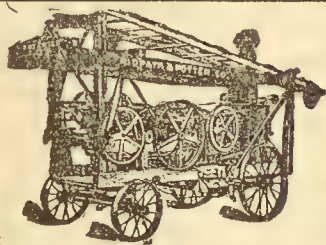
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Alterations and Addition into Restaurant, 1526 Chestnut street, Philadelphia. Architect taking bids due October 4th. Architect, Hadlow Hughes, Heck & Conrad, Cleveland, Ohio. Owners, Stauffer, Inc., Cleveland, Ohio. Demolition, concrete and cement work, brick work, structural steel, tile and marble, terrazzo, linoleum floors, carpentry and mill work, painting and glazing, metal lath, plastering, acoustical work, miscellaneous iron work, sheet metal work, hardware, lockers, steam heating, ventilating system, hollow tile work, plumbing.

Store Building, Northwest Corner Forty-second and Walnut streets, Philadelphia. Architect taking bids due October 4th. Architect, Ralph White, 1518 Walnut street, Philadelphia. Owner, name withheld. Brick, 1 story and basement, 200x20 feet, metal lath, ornamental iron work, slag roof, yellow pine and cement floor.

Addition, 164 West Cheltenham avenue, Philadelphia. Architect taking bids due October 3rd, 2 P. M. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, Cadillac Motor Car Co., on premises. Brick and concrete, metal lath, ornamental iron work, slag roof, cement floors.

Residences (31), \$172,000. South side Cottman street, East of Sacket street, Philadelphia. Permit issued. Architect, Karl F. Otto, 2240 North Broad street, Philadelphia. Owners, M. & R. Madway, Forty-eighth and Walnut streets, Philadelphia. Brick, 2 stories, 15 feet 11 inches x 36 feet, 12 feet 9 inches x 19 feet 4 inches, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (9), \$34,200. East side Wanamaker street, North of Malvern avenue, Philadelphia. Permit issued. Architect, private plans. Owner, William J. Collins, 5445 Berks street, Philadelphia. Brick, 2 stories, 16x33 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residence, \$7,000. Northeast Corner Blue Grass and Welsh roads, Philadelphia. Permit issued. Architect, William Guent, Southwest Corner Sixth and Lehigh avenue, Philadelphia. Owner, George Schweinsberg, 1915 Grant avenue, Philadelphia. Stone, 2 stories,

27x36 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Residences (23), \$81,500. East side Wanamaker street, South of Elmwood avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Harry M. Shapiro, 5230 Walnut street, Philadelphia. Brick, 2 stories, 16x31 feet, 13x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Store and Residence (alts.), \$2,000. 6015 Lansdowne avenue, Philadelphia. Permit issued. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owner, Norman K. MacGregor, 1122 North Sixty-fifth street, Philadelphia. General alterations.

Residences (52), \$184,000. Penfield street, West of Andrews avenue, Philadelphia. Permit issued. Owners, James F. Nolens Sons, 64 East Church Lane, Philadelphia. Brick, 2 stories, 15x30 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (2), \$33,000. North side Warden Drive, West of Vaux street, Philadelphia. Permit issued. Owner, John H. McClatchey, Land Title Building, Philadelphia. Brick and stone, 3 stories, 20x38 feet, hardwood and pine floors, electric light, tile work.

United States Custom House (miscellaneous repairs and painting), Chestnut street, between Fourth and Fifth streets, Philadelphia. Low bidder: Schaefer & Co., 1600 Arch street, Philadelphia, \$1,975. Architect, private plans. Owners, United States Government, A. Lincoln Acker, Custodian, on site.

Contract No. 224, Underground Cable System. Contract No. 228, Subway Entrance Enclosure, Broad Street Subway, Philadelphia. Low bidders. Owners, Department of City Transit, thirteenth floor, City Hall Annex, Philadelphia. Contract No. 224, Fischback & Moore, 226 East Forty-first street, New York City; Contract No. 228, Smyser & Royer, 1700 Walnut street, Philadelphia. Bid for No. 224, \$119,084.07. Bid for No. 228, \$15,768.

Road Work, 10-foot improved highway. Rynard street, from Willow or Moore road to Chestnut street. Rynard road, from Ridley Drive to Willow road. Owners taking bids due October 16th, 8 P. M. Architects, Damon & Foster, Engineers, Sharon Hill, Pa. Owners, Commissioners of Nether Providence Township, J. Paul Palmer, Secretary, Wallingford, Pa. Alternates: 2-inch bituminous concrete surface; 3-inch bituminous macadam wearing surface.

Equipment, Eastern State Penitentiary, Gratersford, Pa. Owners taking bids, due October 7th. Day & Zimmerman, 112 North Broad Street, Philadelphia. Excavation work.

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Contract No. 224, Underground Cable System, Broad Street Subway, Philadelphia. Owners taking new bids, due October 11, noon. Owners, Department of City Transit, thirteenth floor, City Hall Annex. Deposit \$25.00 refunded.

Miscellaneous Work, Philadelphia, Pa. Owners taking bids, due October 9th, noon. Architect, private plans. Owners, Department of Public Works, Bureau of Engineering, Room 903, City Hall Annex, Philadelphia. Schedule F, Inlet, Lateral, etc. Schedule G, Sewage Disposal project, Dark Run Lane Sewer, at Milner Street, Philadelphia. VanDyke Street, from Paul to Little Tacony Creek; Cottman Street, from Wissinoming to East of Eugene Street, Philadelphia. Schedule H, Improvements of Sidewalks. Frankford Avenue, from Bridge Street to Cheltenham Avenue, Philadelphia. Bids opened twelfth floor, City Hall Annex, Filbert Street corridor.

Service Station, between Farragut Street and Forty-sixth Street, Philadelphia. Owner will build, ready for bids in two weeks. Architect, Edw. B. Halderman, 3438 North Twentieth Street, Philadelphia. Owner, A. Leibovitz, North American Building, Philadelphia. Tile, concrete, hollow tile, stucco.

Garage (add.), Nineteenth and Norris Sts., Philadelphia. Owner taking bids, due as soon as possible. Architect, private plans. Owner, Y. W. Ralph, care of Norris Street Garage, Nineteenth and Norris Sts. Brick and steel, three stories, 50x60 feet, slag roof, cement floors.

Repairs, U. S. Appraisers' Stores, 134 South Second Street, Philadelphia. Owners taking bids, due October 4th, 2 P. M. Architect, private plans. Owners, U. S. Custom Service, Lincoln Acker, Custodian, Chestnut Street, below Fifth Street, Philadelphia. Painting, repairs to roof, carpentry and millwork, linoleum floors, general interior alterations.

Supplies, Philadelphia, Pa. Owners taking bids, due October 8th, noon. Owners, Department of Supplies, Thomas H. Watson, Room 302, City Hall Annex, Philadelphia. Bids opened Room 306. Galvanized corrugated pipe, cast iron pipe, Manganese bronze, screw castings, boiler tubes.

Alterations, 2225 Pine Street, Philadelphia. Architects taking bids, due as soon as possible. Architects, Edwards & Hoffman, 315 South Fifteenth Street, Philadelphia. Owner's name withheld. General interior alterations.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

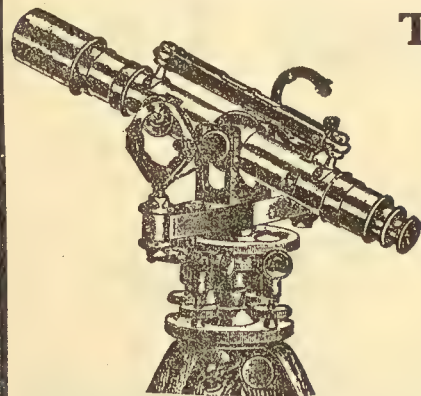
Bank (add.), Germantown and School Lane, Philadelphia. Contract awarded Roberts & Roller, Southwest Corner Seventeenth and Walnut streets. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Saving Fund Society of Germantown, S. W. Jones, on premises. Brick, reinforced concrete, steel, granite, 1 story, mezzanine and basement, 150x57 feet, steam heat, electric light, metal lath, tile, marble and terrazzo, hollow metal sash, kalamein and hollow metal doors, travertine, rubber tile floors, composition copper roof, concrete roof deck, cement floors, hollow tile, elevators, plumbing, caulking, waterproofing and dampproofing.

Mill Building, East side Ridge, South of Indiana avenue, Philadelphia. Contract awarded George Kessler Contracting Co., 1733 North Marvine street. Architects, Leopold Hauf, R. N. Dippy, 1600 Walnut street, Philadelphia. Owners, Superior Knitting Mills, care of architect. Brick, steel, limestone, 2 stories and basement, 191x75 feet, slag roof, concrete floors, concrete piling, metal lath, tile and marble, rolled steel sash, fire doors, bond, ornamental iron work, area gratings, excavation, metal toilet partitions, overhead doors, elevator.

Warehouse, Tenth and Somerville avenue. Contract awarded William Steele & Sons, Southeast Corner Fifteenth and Cherry streets. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Union Building Corporation, Newark, N. J. Lessees, Almar Stores, W. C. Wathel, 925 North Front street, Philadelphia. Brick, steel, reinforced concrete, 3 and 2 and 1 stories and basement, 520x100 feet, concrete floors, fire doors, kalamein doors, waterproofing and dampproofing, bond, hollow tile, slag roof, rolled steel, skylights, steel partitions, iron work, bronze, caulking, hardware.

Manufacturing Building, Northeast Corner Torresdale and K streets, Philadelphia. Contract awarded Thomas H. Latta, Jr., 1926 Sansom street. Architects, Leopold Hauf, Jr., and Robert Dippy, 1600 Walnut street, Philadelphia. Owners, Francis A. Bruner, Inc., Southeast cor. Coral and Hager Sts., Phila. Reinforced concrete, brick, steel, 4 stories and basement, 142x68 feet (plumbing, heating, electric and sprinkler reserved), slag roof,

Manufacturing Building, Northeast Corner Torresdale and K streets, Philadelphia. Contract awarded Thomas H. Latta, Jr., 1926 Sansom street. Architects, Leopold Hauf, Jr., and Robert Dippy, 1600 Walnut street, Philadelphia. Owners, Francis A. Bruner, Inc., Southeast cor. Coral and Hager Sts., Phila. Reinforced concrete, brick, steel, 4 stories and basement, 142x68 feet (plumbing, heating, electric and sprinkler reserved), slag roof,



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gypsum roof deck, cement floors, elevators, metal window guards, rolled steel sash, kalamain doors, bond, floor hardener, area gratings, steel partitions.

Men's and Women's Lockers (alts. and add.), Juniata Park, Philadelphia. Contract awarded. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Commissioners of Fairmount Park, City Hall Annex, Philadelphia. Stone, 2 stories and basement, 50x27 feet, 3 stories and basement, 47x60 feet, concrete and cement work, demolition, excavation, brick work, limestone, steel and iron work, steel casement sash, carpentry and mill work, hardware, plastering, metal lath, stucco work, mineral floors, terrazzo floors, rubber tile floors, marble work, slate roof, metal lath, sheet metal work, painting and glazing, hot water heat, plumbing, electric work. Conneen Construction Co., 770 S. Schuylkill avenue, Philadelphia, \$28,876, men's lockers. Women's lockers, Conneen Construction Co., 770 South Schuylkill avenue, Philadelphia, \$26,800.

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Banking Building (interior finish), 1423-25 Walnut street, Philadelphia. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owners, Newburger, Henderson & Loeb, 1512 Walnut street, Philadelphia.

Residence (alt.), \$10,000. 826 Westview avenue, Philadelphia. Contract awarded J. Sims Wilson, 1125 Brown street, Philadelphia. Architect, Frank E. Hahn, 629 Chestnut street, Philadelphia. Owner, Leon J. Obermayer, on premises. Carpentry and mill work, plastering, painting and glazing, general interior alterations (plumbing, heating, electric, tile work reserved).

Gasoline and Lubricating Station, Woodland avenue and Gray's Ferry avenue, Philadelphia. Contract awarded I. S. Grindrod, 10 South Eighteenth street, Philadelphia. Architect, private plans. Owners, Vacuum Oil Co., Mitten Building, Philadelphia. 1 story, 27x20 feet, wing 20x14 feet, metal lath, slate roof, cement floors, painting and glazing.

Manufacturing Building (add.), Jasper and Butler streets, Philadelphia. Engineer, M. Ward Easby, Schaff Building, Philadelphia. Owners, Windsor Manufacturing Company, on premises. Brick and steel, 3 story and basement, slag roof, yellow pine and cement floors. Contract awarded Wintz Brothers, 1618 Sellers street, Philadelphia.

Garage, \$2,800. 2628 Belgrade street, Philadelphia. Contract awarded A. Sezmanicki, 4233 East Thompson street, Philadelphia. Architect, private plans. Owner, Mary Kelly, on premises. Brick, 1 story, 16x124 feet, slag roof, cement floors, electric work.

Apartment House (alts.), \$10,000. 472-4 Roxborough avenue, Philadelphia. Contract awarded Graham-Chambley Co., 3649 Filbert street, Philadelphia. Architect, Charles E. Oelschlager, 1513 Walnut street, Philadelphia. Owner, Violet A. Trepanier, on premises. General alterations.

Residence, \$12,000. Northeast Corner Arbutus and Burnham road, Philadelphia. Contract awarded R. C. Celie, 1211 Morris Building, Philadelphia. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owners, Steelbuilt Homes Corporation, 1211 Morris Building, Philadelphia. Stone and steel, 3 stories, 35x32 feet, electric light, tile work.

Office Building (add.), (third floor add.), 106 Fairmount avenue, Philadelphia. Contract awarded Kempf Brothers, 1339 North Howard street, Philadelphia. Architect, private plans. Owners, Ross Electric Co., on premises. Brick wall, steel sash, slag roof, pine floors,

electric work, plumbing, plastering, 17x30 feet.

Residence (alt. and add.), 644 North Thirty-fifth street, Philadelphia. Contract awarded Kempf Brothers, 1339 North Howard Street, Philadelphia. Architect, private plans. Owner, Thomas Crawford, on premises. Brick and stucco, 2 stories, 10x10 feet, electric light, slag roof, pine and wood floors, plumbing work.

Coal Storage Silos, \$13,500. Southeast Corner Sedgley and Dauphin street, Philadelphia. Contract awarded L. H. Blouch & Co., 1050 Drexel Building, Philadelphia. Owners, Standard Coal & Ice Co., on premises.

Residence, \$6,000. West side Verree road, North of Loney street, Philadelphia. Contract awarded Harry Gorelick, 1838 North Thirty-second street, Philadelphia. Architect, private plans. Owner, Joseph M. Horn, 7733 Hasbrooke avenue, Philadelphia. Brick, 1 story, 32x43 feet, electric light, hardwood and pine floors.

Service Station, \$5,000. Southeast Corner Ridge and Rochelle avenues, Philadelphia. Contract awarded C. M. Swartley & Son, 6835 Ridge avenue, Philadelphia. Architect, private plans. Owners, Fleming Brothers, on premises. Brick, 1 story, 25 feet 6 inches x 67 feet, slag roof, cement floors, electric work.

Office, \$5,000. Fifty-sixth street, West of Schuylkill River, Philadelphia. Contract awarded Morton C. Tuttle Co., Fifty-sixth and Schuylkill River, Philadelphia. Architect, private plans. Owners, United States Gypsum Co., on premises. Brick, 1 story, 30x50 feet.

Residence, \$2,800. 1607 Webster street, Philadelphia. Contract awarded I. Greenberg, 5374 Morse St., Philadelphia. Architect, private plans. Owner, J. Katz, 610 South Tenth street, Philadelphia. Brick, 2 stories, 25x16 feet, slag roof, pine floors, electric work.

Dye House (repairs), \$5,000. Northeast Corner Edgemont and Clementine streets, Philadelphia. Contract awarded Knox-Landers Co., 1132 Vine street, Philadelphia. Owners, E. Sutro & Sons, on premises. General repairs.

Residence (add.), \$2,750. 3024 Midvale avenue, Philadelphia. Contract awarded McClintock & Weaver, 24 West Phil-Elena street, Philadelphia. Architect, R. A. Remick, on premises. Owner, L. V. Boyd, 1215 Harrison Building, Philadelphia. Stone, 2 stories, 8 feet 8 inches x 14 feet 4 inches.

Miscellaneous Road Work, Philadelphia, Pa. Contract awarded. Abbottsford, Fox to Connecting Railway, Philadelphia, McCarrick Brothers, 3240 Fox street, Philadelphia, \$4,862.17. Michner, from Mt. Airy to Cresheim street, Morrissey Brothers, 4336 North Marshall street, Philadelphia, \$4,121.64. Spring

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Lane, Hagy's Mill road to Tripple, McCarrick Brothers, 3240 Fox street, Philadelphia, \$7,205.75. Fox street, Hunting Park avenue to Abbottsford, Mack Paving Co., Nicetown Lane and C street, Philadelphia, \$65,973.75. Smooth Dressed Granite Block Repaving: Canal, from Poplar to a point 90 feet North of Lewellen, Mazzolla & Marano, 739 South Seventh street, Philadelphia, \$8,651.75. Abbottsford avenue, from King to Fox, Bowman, etc., Union Paving Co., 123 South Twenty-first street, Philadelphia, \$11,159.94. Thirtieth street, from Oxford avenue to Jefferson street, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$7,903.72. Curbing and Footway Work: James F. D'Rourke, 950 North Fiftieth street, Philadelphia, \$5,909.75. Paving and Repaving Certain Alleys: E. Ventresco, 6016 Ross street, Philadelphia, \$7,548.50.

University School of Medicine, northwest corner Broad and Ontario Streets, Philadelphia. Contract awarded Irwin & Leighton, 1505 Race Street, Philadelphia. Architect, Wm. H. Lee, 1505 Race Street, Philadelphia. Owner, Temple University, Dr. C. E. Beury, Broad and Ontario Streets. Reinforced concrete, brick, limestone, steel, seven stories and basement, 187x92 feet, built up roof, slate roof, concrete roof deck, oak and cement floors, elevators, roof ventilators, metal weatherstrip, architectural terra cotta, area gratings, ornamental iron, steel casement windows, iron stairs, floor hardener, bond, hollow metal, tin clad and kalamein doors, rolled steel skylights, rolled steel and hollow metal sash, tile, marble, mastic floors, incinerators, membrane and integral waterproofing, plaster bond, rolling screens, Celotex.

Rectory, Sanger street and Roosevelt Boulevard, Philadelphia. Contract awarded B. J. McKenna, 2643 North Hutchinson street. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Martin's of Tours R. C. Church, Rev. J. P. McHugh, Rector, 5100 Roosevelt Boulevard, Philadelphia. Mt. Airy granite, steel 3 stories and basement, 91x45 feet, slag roof, oak and pine floors, steam heat, electric light, tile, metal lath, rolled steel sash, ornamental iron work, concrete, cement work, hardware, plumbing, glazing, plastering.

Pennsylvania Construction News

Grade School, Pennwynne, Montgomery County, Pa. Work contemplated. Architect, Ralph White, 1518 Walnut street, Philadelphia. Owners, School District of Lower Merion Township, W. Anstin, President, Gulf

road and Ithan road, Rosemont, Pa. Brick and steel, 2 stories, concrete work.

Residence Development, adjoining Aronimink Golf Club, St. Davids, Pa. Work contemplated. Architect, private plans. Owner, Frank H. Mahn, 15 East Lancaster avenue, Ardmore, Pa.

School Building, First Ward, Chester, Pa. Work contemplated. Owners, School Board of Chester, Samuel C. Miller, Assistant Superintendent, Chester, Pa.

Gymnasium Building, Haverford Township, Pa. Architect not selected. Sketches drawn by Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Haverford Township School Board, W. Logan MacCoy, Chairman Building Committee, Commercial Trust Bldg., Phila. Stone, brick, steel, 2 stories and basement, 128x53 feet. Will include swimming pool, lockers and showers.

Residence, Wynnewood, Pa. Revised plans in progress. Architect, Harold Edward Williams, Drexel Park, Pa. Owner, J. T. Guyer, care of architect.

Gymnasium and Auditorium, Cheyney, Pa. Preliminary plans in progress. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Cheyney Training School, Cheyney, Pa.

Residence and Garage, Drexel Park, Pa. Sketches being prepared. Architect, Harold Edward Williams, Drexel Park, Pa. Owner, Edward L. Schwartz, 5623 Florence avenue, Philadelphia. Stone, 2½ stories.

Residence, Camp Hill, Pa. Sketches in progress. Architects, Jamison & Minich, 23 North Third street, Harrisburg, Pa. Owner, Carl Deen, 25 North Twenty-fourth street, Camp Hill, Pa. Brick, 2½ stories.

School (alts.), Hamburg, Pa. Plans in progress. Architect, H. Raymond Heckman, Baer Building, Reading, Pa. Owners, Board of Education, Henry J. Drenir, Secretary, Hamburg, Pa. Changing stairs.

Church, \$40,000. Clark's Summit, Pa. Plans in progress. Architects, Sheridan & Knoblock, Markle Bank Building, Hazleton, Pa. Owners, Our Lady of the Snows Roman Catholic Church, Rev. Martin C. King, South State street, Clark's Summit, Pa.

Grade School, Douglas Township, Montgomery County, Pa. Sketches in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Douglas Township School Board, H. Tagert, Secretary, Sausamansville, Pa. Brick, 1 story, 6 rooms.

Grade School, Gilbertsville, Pa. Sketches in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Douglas Township School Board, H. Tagert, Secretary, Sausamansville, Pa. Brick, steel, 1 story, 6 rooms.

Office and Store, 109 West Market street, York, Pa. Plans in progress. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owner, William Kurtz, Central Bank Building, York, Pa. Fireproof, 2 stories, 47x160 feet.

Residence, East Market street, York, Pa. Plans in progress. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, H. M. Plowman, 1239 East King street, York, Pa. Brick, 2½ stories, 36x28 feet, slate roof, hardwood floors, oil burners, electric light, tile work.

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Warehouse, East side Second street, opposite Vine street, Harrisburg, Pa. Plans in progress. Engineer, John H. Wickersham, Appel Building, Lancaster, Pa. Owners, G. R. Kinney Co., Inc., 225 West Thirty-fourth street, New York.

Church (alts. and add.), \$100,000. Nanticoke, Pa. New plans in progress. Architect, George P. McLean, Second National Bank Building, Wilkes-Barre, Pa. Owners, Holy Trinity Roman Catholic Congregation, Rev. R. A. Wieziolowski, 520 Hanover street, Nanticoke, Pa.

Service Station and Warehouse, Fifth and Oley streets, Reading, Pa. Preliminary plans in progress. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owners, Firestone Tire & Rubber Co., Akron, Ohio. Brick, 2 stories, 68x70 feet, store front, electric light, heating, plumbing, elevator, wood partitions, concrete floors.

Residence (alts.) to 2-Family Apartment, Orwigsburg, Pa. Plans in progress. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owner, Harry Feagley, Orwigsburg, Pa. New bath, tile work, plastering, painting, brick work, plumbing, heating, electric work.

Store (alts.), Cedar and Mills, Bristol, Pa. Plans to be revised. Architect, H. A. McGrath, Langhorne, Pa. Owners, Gallagher & Gallagher, on premises.

Residence and Garage, Wynnewood, Pa. Plans in progress. Owner will build and will be ready for sub-bids in 10 days. Architect, private plans. Owner, James MacMakin, Narberth, Pa. Stone, 2½ stories, 33x38 feet, garage, 20x20 feet, slate roof, electric work, tile, hot water heat, hardwood floors, cement.

Fire House, Lewistown, Pa. Revised plans about completed. Architects ready for bids in a few days. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Brooklyn Fire Co., Lewistown, Pa.

Residence and Garage (private), Lot No. 98, Overbrook Hills in Merion, Pa. Plans in progress. Architect ready for bids in 2 weeks. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, name withheld. Stone, 3 stories and basement, 26x65 feet, central heat, electric, metal lath, tile, ornamental iron work, shingle roof, oak and yellow pine floors, electric refrigeration, plumbing.

High School (add.), Lemoyne, Pa. Working drawings started. Owners will be ready for bids in about ten days. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Lemoyne School Board, Mrs. J. E. Beale, President, Lemoyne, Pa. Brick, steel, 1 story, composition roof, maple floors, hollow tile, roof ventilators, bond, metal partitions, steel sash, metal lath (plumbing, heating and electric separate).

Residence and Garage, Jenkintown Manor, Pa. Revised plans in progress. Ready for bids in 3 weeks. Architect, Harold Edwards Williams, Drexel Hill, Pa. Owner, A. E. Horst, 193 East Roosevelt Boulevard, Philadelphia.

Residence and Garage (6 pair, twin), Westwood avenue, Overbrook Hills in Merion. Plans in progress. Owners will build and sublet. Architect, E. Allen Wilson, 1600 Arch St., Philadelphia. Owners, McWilliams & Maloney, Overbrook Hills in Merion, Pa. Brick and frame, 2½ stories and basement, 16x45 feet, wing 18x20 feet, central heat, electric light, metal lath, tile, shingle roof, oak and yellow pine floors, cement floors.

Residence and Garage, Orelan, Pa. Plans in progress. Frank Green, 1221 East Washington Lane, will build. Architect, private plans. Owner, John W. Branin, Orelan, Pa. Stone, 2½ stories, 30x45 feet, garage, 1 story, 22x30 feet, vapor heat, electric light, hardwood floors.

Church and Sunday School, West of Spring City, Pa. Plans completed. Ready for bids in 2 weeks. Architect, J. Vincent Poley, Royersford, Pa. Owners, Bethel Methodist Episcopal Church, care of W. A. Mowrer, Bridge and Penn streets, Spring City, Pa. Stone, 1 story and basement, 42x57 feet, 32x57 feet, vapor heat, electric light, slate roof, oak and yellow pine floors, ornamental iron work.

Residence and Garage, Sayreville, Pa. Plans about completed. Ready for bids in a few days. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, R. Morgan, care of Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Stone, 2½ stories.

Residence (alt. and add.), Downingtown, Pa. Held up until December. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, William H. Eades, Downingtown, Pa. General interior alterations.

Residence, Southwest Corner Church road and Sandy Hill road, Laverock, Pa. Indefinitely postponed. Architects, Willing, Sims & Talbut, 126 South Eighteenth street, Philadelphia. Owner, T. Bromley Flood, Broad and Venango streets, Philadelphia.

Swimming Pool, near City Line and West Chester Pike, Kirklyn, Pa. Owners taking sub-bids due as soon as possible. Architect, private plans. Owners, Manoraft, Inc., Gustav Weber, 37 East Lancaster avenue, Ardmore, Pa. Concrete block, stucco, stone and brick trim, 2 stories, 142x236 feet, tile, glass roof, concrete floor, ventilating system, plumbing, steel lockers, million-gallon capacity.

Home Economics Building (please note change), State College, Pa. Architect ready for bids in a few days. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, State College, R. S. Hetzel, President, on premises.

High School, Ringtown, Schuylkill County, Pa. Owners will be ready for bids next week. Architects, Muhlenberg Brothers, 113 South Fourth street, Reading, Pa. Owners, Ringtown School Board, care of Washburn Snoich, Ringtown, Pa. Fireproof, 2 stories and basement, 135x76 feet, 110x33 feet, slate roof, maple floors, hollow tile, safety treads, roof ventilators (heating, plumbing and electrical work separate).

Grade School (add.), Royersford, Pa. Owners will be ready for bids about October 1st. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford School Board, Mrs. M. Latshow, Secretary, Royersford, Pa. Brick, hollow tile, 2 stories, 6 rooms, slag roof, pine floors (heating, plumbing and electric separate).

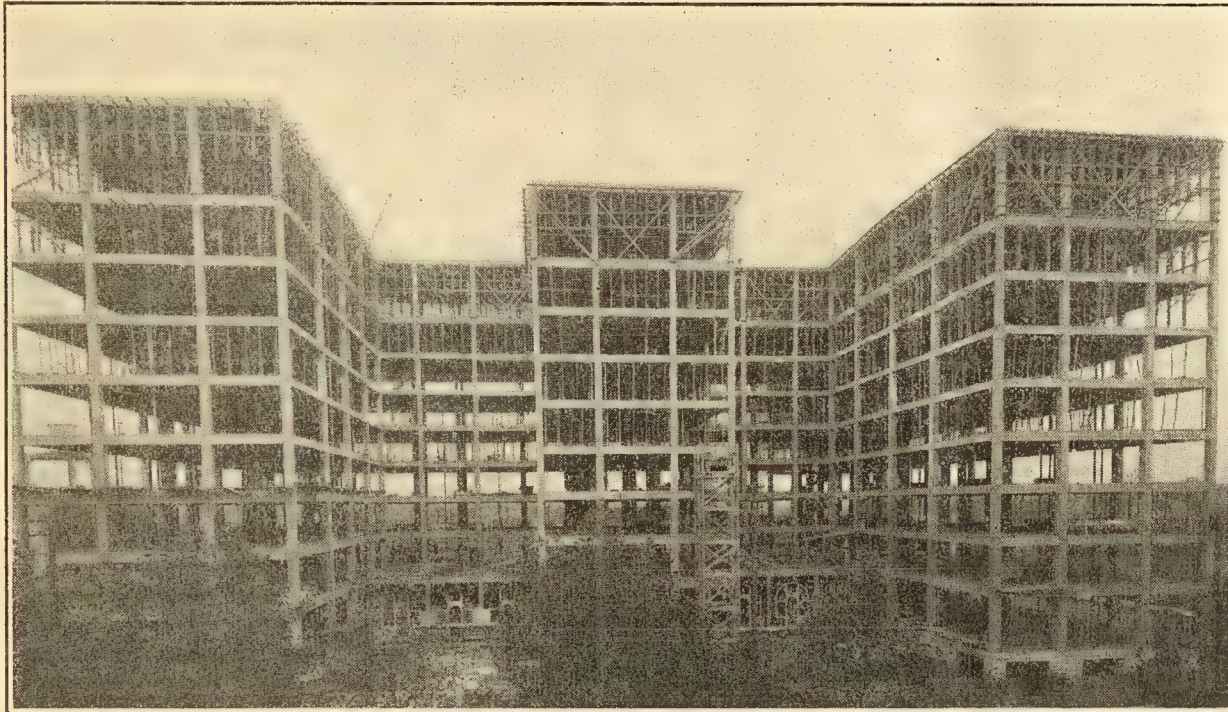
Almshouse (alts. and add.), Shillington, Pa. Owners will take bids in a few days. Architect, Alex. F. Smith, 811A Penn street, Reading, Pa. Owners, Berks County Board of Poor Directors, Court House, Reading, Pa. Brick, steel, 2 stories, (2) 16x36 feet, 25x14 feet, canvas and tin roof, mastic floors, heating extension, electric work, steel sash.

Gymnasium Building, Academy Manor, Harrisburg, Pa. Architect taking bids due October 4th at 1 P. M. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Harrisburg Academy, care of Dr. Brown, Academy Manor, Harrisburg, Pa. Brick and steel.

Sewage Disposal Plant, Franklin and Washington streets, Norristown, Pa. Owners will soon take bids. Engineer not selected. Owners, Borough of Norristown, John A. Rhoades, Norristown, Pa. Remington, Vosbury & Goff, Camden, N. J., or Albright & Mebus, Phila-

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delphia, will be selected as engineers in a few days.

Stable (alts.), Ambler, Pa. Architect taking bids. Architect, William M. Campbell, 1713 Sansom street, Philadelphia. Owner, D. H. Cochran, care of architect. General fire repairs.

Residence and Garage, Lodges Lane opposite Cynwyd road, Cynwyd, Pa. Architect taking bids due October 5th. Architect, Alvin C. Bieber, 1520 Locust street, Philadelphia. Owners, Mr. and Mrs. Edward B. Dougherty, care of architect. Stone, brick, cinder block, stucco, 2½ stories and basement, 73x42 feet, hot water heat, electric light, metal lath, tile and marble, bond, slate roof, oak and yellow pine floors, excavation, concrete work, flagstone, steel and iron work, mahogany floors, celotex or insulite, shingle tile roof, slate roof, California stucco work, plumbing, sewage disposal system, steel easement sash, linoleum floors.

Service Station, North Glenside, Pa. Low bidder: Clinton R. Spencer, North Glenside, Pa. Architect, Edwyn Rorke, Glenside, Pa. Owner, A. Robinson, North Glenside, Pa. Brick, 1 story, T-shape, 24x60 feet, 24x50 feet, tile roof, cement, maple floors, plate glass, overhead doors, electric light, fan unit heat.

Bridge, Darlington, Delaware County, Pa. Plans in progress. Project to be approved. Owners, Delaware County Commissioners, George T. Wades, Media, Pa. Architects, County Engineers, Media, Pa. Reinforced concrete.

Bridge, Coatesville, Pa. Plans in progress. Architect, private plans. Owners, Pennsylvania Railroad Company, Broad and Market streets, Philadelphia. Reinforced concrete.

Culvert, Whitewood road, South of Rock Lane, Cheltenham Township, Pa. Owners taking bids due October 3rd at 7 P. M. Engineer, Chalmer Hare, Elkins Park, Pa. Owners, Board of Commissioners of Cheltenham Township, Harold C. Pike, Secretary, Township Office, Melrose, Pa. Reinforced concrete, 6 feet 6 inches x 10 feet, approximately 115 feet.

Storm and Sanitary Sewer, Clifton Heights, Pa. Owners taking bids due October 3rd, 8 P. M. (Standard Time). Architects, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Clifton Heights, Harry R. Jones, Secretary, Legion Hall, North Penn street, Clifton Heights, Pa.

Paving over Trenches and Openings, McDowell avenue, between Eighth and Ninth streets, Chester, Pa. Engineer, City Engineer, Chester, Pa. Owners, City of Chester, G. J. Hunters, Schools and Public Improvements, Chester, Pa. Deposit, \$2.00, refunded. Copy of advertisement must accompany bid. Bond, 50 per cent.

Road Work, Pennsylvania. Owners taking bids due October 10th at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Armstrong County, R-203, Manor Township, 11,412 feet. One course reinforced concrete, (1) reinforced concrete slab bridge. Certified check, \$3,000.

Bedford County, R-356, Sec. 3, Londonderry Township, Hyndman Borough, 11,838 feet. One course reinforced concrete, (1) reinforced concrete slab bridge. Certified check, \$2,000.

Cambria County, R-54, Spur 1, Cambria and Blacklick Townships, 29,450 feet. One course reinforced concrete, (1) reinforced concrete arch bridge. Certified check, \$1,000.

Clearfield County, R-276, Sec. 3, Ramey Borough, Bigler Township, 10,184 feet. One course reinforced concrete. Certified check, \$2,000.

Erie County, A-6520, Northeast Township, 7,448 feet. One course reinforced concrete, (1) reinforced concrete beam bridge. Certified check, \$1,500.

Franklin County, R-340-264-B, Letterkenny and Lurgan Townships, 28,845 feet. Bituminous surface treated macadam surface course,

(5) bridges. Certified check, \$2,500.

Montgomery County, R-719, A-6444-6446, Lower Merion Township, 9,196 feet. One course reinforced concrete. Certified check, \$2,000.

Montgomery County, R-145-146, Plymouth and West Norriton Townships, Norristown Borough, 17,991 feet. One course reinforced concrete. Certified check, \$3,000.

Potter County, R-526, Sec. 1, Ulysses Township, 21,805 feet. Grading and drainage, (4) reinforced concrete slab bridges. Certified check, \$2,000.

Snyder County, R-195, A-5792, Perry, Franklin and Washington Townships, 43,991 feet. Grading and drainage, (2) reinforced concrete beam bridges. Certified check, \$2,500.

Road Work, Pennsylvania. Low bidders. (September 26th letting.) Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Luzerne County, R-4, Sec. 7A, Plymouth Township, 7,497 feet. One course reinforced concrete, grading and drainage. John Booth, Inc., Carbondale, Pa., \$98,752.

Indiana County, R-434, Sec. 1A, Blacklick Township. One course reinforced concrete. Eastern States Construction Co., Indiana, Pa., \$56,250.

Northampton County, R-517, A-3909-6723, Upper Mt. Bethel Township, Portland Borough. One course reinforced concrete. Collins & Maxwell, Inc., Easton, Pa., \$82,314.

Clearfield County, R-401, Sec. 1, Gulich and Woodward Townships, Moutzdale Borough. One course reinforced concrete. Pratt & Moore, Inc., Hollidaysburg, Pa., \$119,000.

Perry County, R-191, Tuscarora Township. Bituminous surface treated macadam surface course. L. M. Hutchinson, Altoona, Pa., \$134,180.

Fulton County, R-38, Sec. 3A, Belfast Township. (2) span reinforced concrete beam bridges, over Licking Creek. R. R. Meyers, Lewistown, Pa., \$24,182.

Chester County, R-541, Highland and East Fallowfield Townships. Grading and drainage. Dalton Brothers, Paoli, Pa., \$84,891.

Cameron County, R-105, Sec. 5, Gibson and Grove Townships. One course reinforced concrete. A. G. Andrew Engineering Co., Tyrone, Pa., \$86,392.

McKean County, A-5897, Eldred Township. One course reinforced concrete. Grading and drainage. D. L. Dennis, Eldred, Pa., \$170,787.

Allegheny and Westmoreland Counties, R-330, Sec. 1, R-288, Sec. 1, E-181, Sec. A, R-118, Sec. 5, R-288, Sec. 4. Forward, Elizabeth and Rostraver Townships. One course reinforced concrete. J. F. Patterson, trading as Donora Construction Co., Donora, Pa., \$402,694.

Lackawanna County, R-615, Spur 2, Scott and Greenfield Townships. One course reinforced concrete. John Booth, Inc., Carbondale, Pa., \$274,351.

Washington County, Union and Carroll Townships, Route 247. One bridge over Mingo Creek, reinforced concrete, (2) span. Martin & Frownfelter, Camp Hill, Pa., \$20,875.

Crawford County, R-82, Vernon Township, bridge over Watson Creek, reinforced concrete, (2) span. Walter S. Rae, Pittsburgh, Pa., \$39,883.

Concrete Paving, Folcroft, Pa. Owners taking bids, due October 21st, 8 P. M. Engineer, A. Yocum, Darby, Pa. Owners, Folcroft Borough Council, C. R. Williams, Secretary. 18 feet reinforced concrete.

Orphans' Court House (alts.), King and Duke Streets, Lancaster, Pa. Owners taking revised bids, due October 7th, at noon. Archi-

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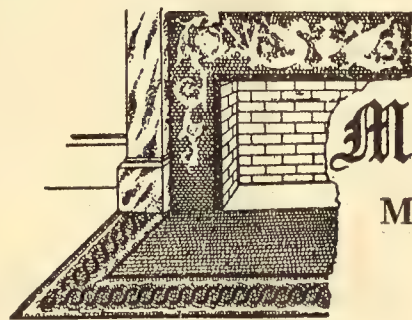
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teet, S. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Lancaster County Commissioners, Wm. Paes, Clerk, Court House, Duke and King Streets, Lancaster, Pa. Interior alterations, partitions, new toilets.

Power House, East Stroudsburg, Pa. Owners taking bids, due October 18th, 2 P. M. Architects, Department of Public Construction, County Bureau of School Buildings, Harrisburg, Pa. Owners, Commonwealth of Pennsylvania, Frank St. Clair, Engineer of Construction, B. E. Taylor, Secretary, Department of Property and Supplies, Harrisburg, Pa. General construction and plumbing. Deposit \$25.00 refunded. Certified check. General bid, \$4,500; plumbing, \$100. Bond, 100%.

Residences (12), Strafford, Pa. Owners taking subbids. Architect J. E. Fieldstein, Otis Building, Philadelphia. Owners, Faladson & Breed, Ardmore, Pa. Frame and stucco, 2½ stories, shingle roof, hot water heat, hardwood floors.

Grading and Changing Pipe Lines, Capitol Park Improvements, Harrisburg, Pa. Owners taking bids, due October 18th. Architects, Department of Property and Supplies, Harrisburg, Pa. Owners, Commonwealth of Pennsylvania, Frank St. Clair, Engineer of Construction, B. E. Taylor, Secretary, Harrisburg,

Pa., Department of Property and Supplies, Harrisburg, Pa. Bid No. 1, furnish and lay 8-in. and 8-in. steel relief sewer, north wing of Capitol Building, and sub-basement of main building. Bid No. 2 furnish and lay 16-in. C. I. water main in Commonwealth Avenue and 6-in. water service to Capitol Building. Bid No. 3, concrete sidewalks, between temporary office building and north terrace. Plank steps and platforms from openings on north elevators, and paving, west entrance to garage. Deposit \$10.00 refunded. Certified check bid No. 1, \$100.00; bid No. 2, \$2,000; bid No. 3, \$2,500; bid No. 4, \$100.00.

Road Work, Pennsylvania. Low bidders. (September 27th letting.) Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, State House, Harrisburg, Pa.

Crawford County, R-294, Sec. 2, Wayne Township. One course reinforced concrete, grading and drainage. J. C. Devine Co., Meadville, Pa., \$151,136.

Allegheny County, Route 187, Sec. 2C, Patton Township. Bridge over Abers Run, one span reinforced concrete. Ferris Engineering Co., Pittsburgh, Pa., \$26,922.

Northampton County, R-165, Sec. 4, Forks and Lower Mt. Bethel Township. One course reinforced concrete, grading and drainage. B. G. Coon, Construction Co., Luzerne, Pa., \$335,110.

Indiana County, R-573, Sec. 1A, A-6781, Banks Township, Glen Campbell Borough. One course reinforced concrete, grading and drainage. McCrady Bros., Braddock, Pa., \$116,232.

Bedford County, R-119, Sec. 2, Bedford Township. One course reinforced concrete, grading and drainage. Whittaker & Diehl, Harrisburg, Pa., \$119,842.

Center County, R-404, Sec. 1, Ferguson and Patton Townships. One course reinforced concrete. Ross Construction Co., Westview, Pittsburgh, Pa., \$298,167. Also State College Borough.

Wayne County, R-171, Sec. 2, Lake and Cherry Ridge Townships. One course reinforced concrete, grading and drainage. Geo. C. Hess, Drums, Pa., \$337,867.

York County, R-332, Sec. B, Lower Winsor and Chanceford Townships. Grading and drainage. Richard Hopkins Co., Albany, N. Y., \$77,629.

Clearfield County, R-276, Sec. 3, Ramey Borough, Bigler Township. One course reinforced concrete. (Withdrawn.)

Carbon County, R-163, Sec. 3, Lower Towa-mensing and Franklin Townships, Parrisville Borough. One course reinforced concrete, grading and drainage. B. G. Coon Construction Co., Luzerne, Pa., \$163,100.

Montgomery County, R-198, Lower Moreland Township. One course reinforced concrete. Suburban Construction Co., Ardmore, Pa., \$77,286.

Schuylkill County, R-105, Rush and Kline Townships. One course reinforced concrete. B. G. Coon Construction Co., Luzerne, Pa., \$54,760.

Lackawanna Co., R-332-648, A-6302, Benton Township. One course reinforced concrete. Tyler & Bole, Meshoppen, Pa., \$272,735.

Pennsylvania

Contracts Awarded

Freight Warehouse, Second and Mulberry Streets, Harrisburg, Pa. Contract awarded Robert E. Lamb, 843 North Nineteenth St., Philadelphia. Architect, W. Cookman, Engineer Penna. R. R., Broad Street Station, Philadelphia. Owners, Penna. R. R., Broad Street Station, Philadelphia. Brick, reinforced concrete, steel, six stories and basement, steam heat, electric light, slag roof, composition roof, concrete or gypsum roof, deck, concrete floors, elevators, roof, ventilators. architectural terra cotta, rolled steel sash, hollow metal sash, rolled steel skylights, rolled steel and kalamein doors, ornamental iron work, demolition, cement and concrete work (Integ. and Memb.), waterproofing, floor hardener, sheet metal work, fire doors (sliding), carpentry, hardware, painting, glazing, plumbing, sprinklers, Peele freight elevator doors, 50x80 feet.

Garage, Remington Road, Wynnewood, Pa. Contract awarded Jacob Myers Sons Co., 5100 Lancaster ave., Phila. Architects, Edwards & Hoffman, 316 S. 15th Street, Philadelphia. Owner, Charles E. Hires, Jr., Wynnewood, Pa. Stone, steel, two stories and basement, 60x21 feet, hot water heat, shingle roof, electric light, metal lath, tile work, bond, steel casement windows, ornamental iron work, excavation, oak and cement floors.

Store Building, Montgomery avenue and St. James Place, Ardmore, Pa. Contract awarded A. L. Fretz Co., 1213 Filbert street, Philadelphia. Plans in progress. Too early for details. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owners, Suburban Co., Ardmore, Pa. Lessees, Strawbridge & Clothier Co., Ninth and Market streets, Philadelphia, Herbert Tily, President, Eighth and Market streets, Philadelphia. Brick, limestone, steel, 2 or 3 stories, 40,000 square feet.

Residence and Garage, \$75,000. Bryn Mawr avenue, Wynnewood, Pa. Contract awarded William J. Gruhler, 219 East High street, Philadelphia. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Dr. T. Grier Miller, 110 South Twentieth street, Philadelphia. Stone, steel, 2½ stories and basement, 62x27 feet, wing 78x31 feet, bond, excavation, flagstone, bluestone, cast stone, limestone, kerner incinerator, brick work, tile work, linoleum floors, Zenith-

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ern floors, cement floors, reinforced concrete work, iron work, iron stairs, copper work, slate roof, shingle roof, carpentry and mill work, oak floors, painting and glazing, plumbing, brass pipe, vapor heat, electric work.

Telephone Building, \$750,000. Easton, Pa. Contract awarded without competition to John N. Gill Construction Co., 1500 Chestnut street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, Nineteenth and Arch streets, Philadelphia. Brick, limestone, steel, 5 stories and basement, 110x105 feet, steam heat, electric, metal lath, tile, rolled steel sash, bond, ornamental iron work, slag roof, cement floors.

Residence No. 14, Bryn Mawr Farms, Pa. Contract awarded Metzger & Co., Otis Building, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement, 140x34 feet, excavation, hardware, limestone, painting, glazing, flagstone, sheet metal work, slate roof, steel casement, iron work, oak and pine floors, metal lath, tile and marble work (heating, plumbing, grading, electric refrigeration, screens and weather stripping reserved).

Athletic Field and Stadium, Greenwood avenue, Walnut street, West avenue and Highland avenue, Jenkintown, Pa. Contract awarded Simms & Co., 123 South Twenty-first street, Philadelphia, \$52,500. Architect, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Jenkintown School District, Guy M. Graybill, Jenkintown, Pa. Excavation, 200 feet long, concrete and cement floors, stone masonry, brick work, carpentry and mill work, painting, glazing, electric work.

Store Building, 113-15 Easton road, Glenside, Pa. Contract awarded M. S. Oberholtzer, Glenside, Pa. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Moskovitz Brothers, Glenside, Pa. Brick, limestone or cast stone, steel frame, wood joist construction, 1 story and basement, 40x80 feet, slag roof, hardwood floors, steam heat, plastering, cement, metal skylights, plate glass, copper bulks, tile and marble work.

Hotel Strand (alts. and add.), Market street, Harrisburg, Pa. Contract awarded J. E. Schreadley Construction Co., 1712 North Fifth street, Harrisburg, Pa. (Note change.) Plumbing and heating to Wilhelm & Runk, Harrisburg, Pa. Electric to Dauphin Electric Co., 436 Market street, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, Max Cohen, 426 Market street, Harrisburg, Pa. Brick work, general interior alterations, new front, pine floors, tile work, plumbing.

Cafe (alts.) to Stores (3) and Apartments, Ninth and Penn streets, Reading, Pa. Contract awarded Harry Raudenbush, 1324 Perkiomen avenue, Reading, Pa., on cost plus basis. \$15,000. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owner, John Barbey, 430 Court street, Reading, Pa. Electric work, structural steel, heating, glass fronts, marble, tile, sheet metal work.

High School Building, Mechanicsburg, Pa. Plumbing, heating and ventilating awarded to M. H. Baker & Co., 1330 Derry street, Harrisburg, Pa. Electric awarded C. M. Davis & Sons, 600 North Second street, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Mechanicsburg School Board, G. A. Minemayer, Mechanicsburg, Pa. Brick, steel, 2 stories and basement, 137x149 feet, built-up roof.

Swimming Pool, Bryn Mawr, Pa. Contract awarded Arey Hauser, Elverson Building, Philadelphia. Architects, Collins & Allen, 75 Newbury street, Boston, Mass. Owners, Baldwin School for Girls, Bryn Mawr, Pa. Brick, steel, 1 story, irregular size, cement floors, steam heat, electric light, bond, ornamental iron work.

Farm House (alts. and add.), Bethlehem, Pa. Contract awarded C. C. Eddleman, Presser Building, Philadelphia. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, John M. Gross, on premises. Carpentry and mill work, electric work, plumbing, hot water heat, painting, glazing, hardware, general interior alterations.

Residence, York, Pa. Contract awarded L. M. Klunk, 205 South George street, York, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, Dr. L. S. Weaver, R. D. No. 8, York, Pa. Brick, 2½ stories, 45x32 feet, slate roof, hardwood floors, tile work, electric light, steel casement windows.

Club House (alts. and add.), Reading, Pa. Contract awarded George Brenner, 819 Mulberry street, Reading, Pa. Architect, Wayne M. High, 230 North Sixth street, Reading, Pa. Owners, Polish Political Club, care of architect. Brick, steel, 2 stories, 30x50 feet.

School, Rebersburg, Miles Township, Center County, Pa. Contract awarded Yenter Brothers, Tyrone, Pa. Heating and plumbing to C. F. Tate, Bellefonte, Pa. Electric to Hasterman & Stover, Millerton, Pa. Architects, Minich & Jamison, 23 North Third street, Harrisburg, Pa. Owners, Miles Township School Board, H. A. Meyer, Secretary, Rebersburg. Brick, 1 story, 75x35 feet, slate roof, pine floors.

Store and Market Building, Tenth and Penn streets, Reading, Pa. Contract awarded H. R. Breneman, 742 Schuylkill avenue, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Market Realty Corporation, care of architect. Indiana limestone, 2 stories and basement, 150x150 feet, slag and gypsum roof, concrete, terrazzo and magnesite floors, vapor heat, oil burner, skylights, kalamein and hollow metal doors, cinder block.

Home (alts. and add.), Reading, Pa. Contract awarded L. H. Focht & Son, Baer Building, Reading, Pa. Architect, Wayne M. High, 230 North Sixth street, Reading, Pa. Owner, Arthur Bach, Reading, Pa. Cement and concrete work, waterproofing, cast stone, brick work, caulking, architectural terra cotta, metal toilet partitions, iron stairs, metal lath, plastering, ventilating, skylights, wood deck, asbestos built-up roof, hardware, ornamental plaster, tile work.

Residence and Garage, Haverford, Pa. Contract awarded Frank H. Wilson, Ardmore, Pa. Owner, Frank M. Mahn, 15 East Lancaster avenue, Ardmore, Pa. Architect, private plans. Stone, 2½ stories, slate roof, electric light, hot water heat, hardwood floors, tile.

Residence (alts.), Haverford, Pa. Contract awarded David M. Hunt, Green and Cheltenham avenue, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Mrs. W. M. Griscom, on premises.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Clarion County, R-66, A-6209, R-553, New Bethlehem Borough. One course reinforced concrete. State Construction Co., New Kensington, Pa., \$42,671.55.

Berks County, R-149, West Reading Borough. One course reinforced concrete. W. R. Wolfinger, Norristown, Pa., \$64,209.77.

Juniata County, R-31, Fermanagh Township, Mifflintown Borough. Concrete arch bridge. Ira J. Righter Construction Co., Harrisburg, Pa., \$24,975.61.

Bucks County, R-252, Middletown, Northampton and Southampton Townships. One course reinforced concrete. E. Riley Mixner Co., Ocean City, N. J., \$102,558.21.

Lehigh County, A-6301, Lower Milford Township. One course reinforced concrete. Continental Contracting Co., Baltimore, Md., \$93,627.65.

Erie and Crawford Counties, R-367, A-6521, Concord and Sparta Townships. One course reinforced concrete. Hagedorn Construction Company of West Virginia, Oil City, Pa., \$210,529.92.

Butler and Lawrence Counties, R-246, Sec. 1, Muddy Creek, Slippery Rock, Scott and Washington Townships. One course reinforced concrete. Holmes Construction Co., Wooster, Ohio, \$447,539.25.

Indiana County, A-5461, Montgomery Township. One course reinforced concrete. Eastern States Construction Co., Meadville, Pa., \$77,112.67.

Franklin County, R-588, Washington and Quincy Townships. Bituminous surface treated macadam surface course, (3) bridges. Diehl, Henneberg & Wisdard, Green Castle, Pa., \$128,297.39.

Clearfield County, R-402, Sec. 1, Sandy and Huston Townships. One course reinforced concrete, (5) concrete bridges. Charles H. Fry Construction Co., Erie, Pa., \$341,778.44.

Allegheny County, R-72, S-5, R-389, Shaler Township. One course reinforced concrete. Frank S. Tillman & Co., Tarentum, Pa., \$119,679.76.

Montgomery County, R-362, A-5543, Abington Township, Rockledge Borough. One course reinforced concrete. George I. Thompson Co., Clearfield, Pa., \$44,726.70.

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Somerset County, R-50, Sec. 8 and 9, Upper and Lower Turkeyfoot Townships. One course reinforced concrete. M. F. McCabe Co., Salisbury, Pa., \$291,954.28.

Monroe and Pike Counties, R-167, Middle and Smithfield Townships. One course reinforced concrete. Rudolph & Delano, Tamaqua, Pa., \$316,095.72.

Lehigh County, A-6368, A-6293, North Whitehall and Lowhill Townships. One course reinforced concrete, grading and drainage. Kutztown Construction Co., Kutztown, Pa., \$174,000.

Westmoreland County, R-348, Sec. 4, R-228, Spur, Bell Township. One course reinforced concrete, grading and drainage. Richard Hopkins Co., Albany, N. Y., \$267,663.70.

Lawrence County, R-233, Scott Township. Reinforced concrete bridge. Wood & Golder, New Castle, Pa., \$25,496.57.

Lawrence County, R-315, Shenango Township. One course reinforced concrete. F. S. Wilson, Kitanning, Pa., \$25,969.82.

Montour County, R-240, Sec. 1, Anthony and Derry Townships. D. W. Davis & Sons, Inc., Kingston, Pa., \$279,164.97.

Center County, R-107, S-4, Spring and Boggs Townships. George I. Thompson Co., Clearfield, Pa., \$125,394.18.

New Jersey Construction News

Hospital, Gloucester, N. J. Work contemplated. Architect, not selected. Owners, Gloucester County Board of Chosen Freeholders, Joseph T. Moreland, Chairman, County and State Committee of Institutions, Woodbury, N. J.

Church, Maple Shade, N. J. Sketches in progress. Architect selected. Architect, Office of John B. Thomson, 1321 Arch street, Philadelphia. Owners, Holy Trinity Lutheran Church, Maple Shade, N. J.

Store Building, 1130-34 Broadway, Camden, N. J. Plans in progress. Architect, private plans. Owners, F. W. Woolworth Co., Wilkes-Barre, Pa. Brick and steel, 2 stories and base-

ment, 60x125 feet, steam heat, electric, slag roof, maple floors.

Store Building, 1142-50 Broadway, Camden, N. J. Plans in progress. Architect, J. E. Sexton, Engineering Division, S. S. Kresge Co., Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Brick and steel, limestone, 2 stories and basement, 80x100 feet, steam heat, electric light, metal lath, tile, slag roof, yellow pine floors, hollow tile.

Residence (alts. and add.), Frenchtown, N. J. Architects will be ready for bids next week. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, George Eddy, Frenchtown, N. J. Frame, 2 stories, 18x25 feet, 19x32 feet, slate roof, hardwood floors, vapor heat, electric light, tile work.

Tunnel or Overhead Road, Sixth street, Camden, N. J., \$225,000. Also tunnel beneath Fifth street, from Race to Vine street, Philadelphia, \$250,000. Architect selected. Plans about to be drawn. Architect, Ralph Modjeski, Engineer, 1420 Walnut street, Philadelphia. Owners, Delaware River Joint Commission, Joseph K. Costello, General Manager, Bridge Plaza, Camden, N. J.

Stable, Camden, N. J. Revised plans in progress. Owners will be ready for new bids. Architect, private plans. Owners, Abbotts Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Brick, steel, 1 story and basement.

Superintendent's Cottage and Garage, New Jersey State Reformatory, Rahway, N. J. Owners taking bids due October 10th at 2 P. M. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, 2 stories and basement, 43x31 feet, wing 26x12 feet, garage 19x22 feet, slate roof, oak, yellow pine and cement floors, caulking, waterproofing, dampproofing, ornamental iron, bond, tile, marble, metal lath, linoleum floors, metal weather stripping, steel casement sash (plumbing, heating and electrical work separate). Certified check, 5 per cent.

Office Building (alts. and add.), Burlington, N. J. Architects taking bids due October 8th. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, United States Pipe & Foundry Co., Burlington, N. J. Brick, steel, reinforced concrete, 4 stories and basement, 45x30 feet (plumbing, heating and electric reserved), Carey asphalt roof, concrete roof deck, cement floors, hollow metal doors, metal weather strip, waterproofing,

bond, demolition, sheet metal windows, hollow metal office partitions, painting, glazing.

Hospital, Asbury Park, N. J. Architects taking revised bids due as soon as possible. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Memorial Hospital of Asbury Park, N. J. Brick, limestone, steel, 4 stories and basement.

Dormitories (4), Hillsdale, N. J. Owners taking bids due no set date. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Residences (2), \$4,000 each. 420-22 North Fortieth street, Camden, N. J. Permit issued. Architect, private plans. Owner, Clifton I. Lovelace, 1601 Forty-eighth street, Merchantville, N. J. Brick, 2 stories, 18x32 feet, slag roof, pine floors, vapor heat, electric light.

High School, Bridgeton, N. J. Low bidders. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Board of Education, Bridgeton, N. J. 3 stories and basement, 260x80 feet, wing 200x34 feet, metal lath, bond, ornamental iron work, slag roof, maple floors. Costanza Brothers, Camden, N. J., \$309,000; John M. Yardley, 1700 Walnut street, Philadelphia, \$326,976. Plumbing and drainage, John Borden & Bro., 637 North Nineteenth street, \$27,980. Heating and ventilating, Baldwin Ventilating Co., 1509 Arch street. Electric, The Cumberland Electric Co., Bridgeton, N. J.

Superintendent's Residence, New Lisbon, N. J. Low bidders. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Hospital for Insane, New Lisbon, N. J. Brick and steel, 2 stories and basement, 34x65 feet (plumbing, heating, electric separate). Raymond Conover, Pemberton, N. J., \$10,423; Frank Seraski, Brown's Mills, N. J., \$10,450. Owners will do mechanical work.

Borough Hall, Williamstown, N. J. Low bidders. Architect, Thomas Edward Ash, 10 South Eighteenth street, Philadelphia. Owners, Borough of Williamstown, N. J. Brick, east stone, steel, 2 stories and basement, 70x36 feet (plumbing, heating and electric separate bids), metal lath, bond, ornamental iron work, cement and yellow pine floors. Charles W. Jones, Turnerville, N. J., \$30,700; Carl E. Widell, Woodlyn, N. J., \$31,300.

Dormitory, Colony for Feeble Minded Males, Woodbine, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Camden Construction Co., 515 Lawrence avenue, Camden, N. J., \$61,400; Pasquale & Schaible, Vineland, N. J., \$64,863. Plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, \$4,135.

Paving and Widening of Bridge, over Timber Creek, Clementon, N. J. Owners taking bids due October 7th, 11 A. M. (Standard Time). Architect, County Engineer, B. M. Schumacker, Camden, N. J. Owners, Board of Chosen Freeholders, Camden, Fred W. George, Clerk, Camden, N. J. Approximately 71.3 cubic yards concrete piling, 300 lineal feet, 325 square yards 4-inch concrete sidewalks, 100 lineal feet concrete curb, 18-inch terra cotta pipe. Deposit, \$5.00, refunded.

Road Work, New Jersey. Low bidders. Owners, State Highway Commission, A. Leo Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 39, Sec. 3, through Blairstown in Warren County, N. J. Reinforced concrete pavement, (1) concrete bridge. Ross & Taylor, Broad Street Bank Building, Trenton, N. J., \$199,759.

Route 37, Sec. 4, across North Branch of

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Toms River, N. J. William Eisenberg & Sons, Land Title Building, Camden, N. J., \$33,791. Route 39, Sec. 3, 4, 5 and 6, in Burlington County, N. J. Michael Marmella, Rye, N. J.

New Jersey Contracts Awarded

Office Building and Stores, Broad and State streets, Trenton, N. J. Contract awarded Harold E. Wittemann, 188 Montague street, Brooklyn, N. Y. Architect, private plans. Owner, care of C. W. Schragger, Broad Street Bank Building, Trenton, N. J. Brick, steel, 4 stories and basement, electric light.

Telephone Building, Palmyra, N. J. Contract awarded George W. Shaner & Son, Palmyra, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Nineteenth and Arch streets, Philadelphia. Brick and steel, 1 story, steam heat, electric light, slag roof, cement floor.

Garage, \$15,000. Southwest Corner Third and Mickle streets, Camden, N. J. Contract awarded A. Brown, 709 Pine street, Camden, N. J. Architect, private plans. Owner, J. E. Brown, 709 Pine street, Camden, N. J. Brick and block, 1 story, 60x100 feet, slag roof, steam heat, electric light, cement floors.

Garages (4) and Residence (alts.), \$8,000. 944 Cooper street, Camden, N. J. Contract awarded Hensgen Brothers, Inc., 1140 Mechanic street, Camden, N. J. Architect, private plans. Owner, Dr. T. McConaghy, 944 Cooper street, Camden, N. J. Brick, 1 story, 9x18 feet, asphalt roof, general alterations to residence, hot water heat.

Residences (11), \$3,000 each. 1336-56 Morton street, Camden, N. J. Contract awarded Joseph Vincent, 2450 North Forty-sixth street, Merchantville, N. J. Owners, Specialty Home Co., 1010 Wilson Building, Camden, N. J. Brick, 2 stories, 14x40 feet, slag roof, pine floors, warm air heat.

Residences (2) (alts.) into 6 Apartments Each, 615 and 619 Linden street, Camden, N. J., \$3,000 total. Contract awarded John Lindelborn, 320 Benson street, Camden, N. J. Architect, Herbert N. Moffett, 104 Market street, Camden, N. J. Owners, Mickle Investment Co., Fifth and Mickle streets, Camden, N. J. General alterations, changing dwellings into apartments.

Residences (add.), \$2,750. 3916-18 Westfield avenue, Camden, N. J. Contract awarded E. Christopherson, 1763 Merchantville avenue, Merchantville, N. J. Owner, Mary Yetman, on premises. Brick, 2 stories add., 14x21 feet, slag roof, electric light.

Laundry (add.), \$2,500. 1709 Kossuth street, Camden, N. J. Contract awarded D. H. Phillips, Oaklyn, N. J. Architect, private plans. Owner, Bond Laundry, on premises. Block, 1 story add., 52x77 feet, slag roof, steam heat.

Residence (alts.), \$2,000. 449 South Sixth street, Camden, N. J. Contract awarded F. C. Slacum Co., 33 Park avenue, Westmont, N. J. Owner, W. M. Riley, 25 Park Place, Westmont, N. J. Interior alterations, changing partitions, etc.

Residence, Brighton Shore, N. J. Contract awarded Fred Michael, Egg Harbor, N. J. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, Miss Penrose, care of architect. Frame, 2 stories, 40x50 feet, celotex, shingle roof, hardwood and pine floors, electric light.

Paving, \$167,376.64. Route 8, Sec. 3, through Blairstown in Warren County, N. J. Contract awarded Frank H. Smith, Hacketts-town, N. J. Owners, Board of Chosen Freeholders, Belvidere, N. J. Engineer, H. W. Vetter, Court House, Belvidere, N. J. Reinforced concrete pavement, (1) concrete bridge.

Miscellaneous Construction News

Apartment House (18-family), Dover, Del. Architect will be ready for bids next week. Architect, W. E. Hance, Equitable Building, Wilmington, Del. Owner, name withheld. Non-fireproof, 3 stories, 76x110 feet, slag roof, hardwood floors, electric light, tile and marble work.

Miscellaneous Contracts Awarded

Bank Building, 2125 Market street, Wilmington, Del. Contract awarded W. D. Had-dock, 804 Orange street, Wilmington, Del. Architect, L. Waring Wilson, 807 Otis Building, Philadelphia. Owners, Brandywine Trust & Saving Bank, Wilmington, Del. Brick, limestone, steel, 3 stories and basement, 41x58 feet, 18x50 feet, Barrett roof, cement floors, plumbing, steam heat, electric light, metal lath, tile, cement floors, plumbing, steam heat, electric light, marble, steel sash, copper covered, bond, ornamental iron work.

Tire Shop and Service Station, Wilmington, Del. Contract awarded C. J. Dougherty, 600 Tatnall street, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Firestone Tire & Rubber Co., 1201 French street, Wilmington, Del. Brick, steel, 1 story and mezzanine, 50x76 feet, composition roof, concrete and wood floors, hot water heat, electric work, steel sash.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.

TRENDS IN HOME DESIGN

By JOHN WORTH

EDITOR'S NOTE—This report of the recent address of James S. Taylor, acting chief of the Division of Building and Housing of the U. S. Department of Commerce, before the National Association of Real Estate Boards reveals in an interesting way what the modern home builder is demanding.

What sizes, shapes and kinds of small houses are being built in American cities today? How are they finished? What equipment goes into them? What is the modern housewife and homebuilder looking for?

These are questions the Department of Commerce set out to answer and which have been partially answered as a result of its survey of hundreds of homes in 38 cities. James S. Taylor, acting head of the Division of Building and Housing, says they are demanding better architecture, for one thing, and more comfort and convenience.

Modern features that contribute to time saving and labor saving housekeeping, and that make for health and comfort are popular with home buyers, he says.

There is a tendency to cut down on the cubical contents of houses so that now we have somewhat smaller room sizes, lower ceiling heights and more economical arrangement of space.

In the houses visited in the Department of Commerce survey, kitchens were more nearly alike in size than any other room. Most of them contained about 100 square feet, with the width about three-quarters of the length, so that 8 feet 10 inches by 11 feet 8 inches is the typical size.

Living rooms from 11 to 15 feet wide

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and 15 to 22 feet long, with the width commonly about two-thirds the length, were most frequent. These figures are based on houses mostly of five or six rooms, which predominate.

Dining rooms tend to be more nearly square, with about half again as large an area as the kitchens. Bedroom sizes run distinctly larger in two-story than in one-story houses. The owner's bed-room in many two-story houses is over the living room and about the same size.

In houses above the lower price range, there is an increasing tendency to have a higher ceiling in the living room by keeping the floor one or two steps lower than the remainder of the house.

In most cities, according to Mr. Taylor, probably fewer really small houses,—say, of three or four rooms—are being built than before the World War. The family that can compress itself into a small space apparently doubles up with another, goes into a multi-family structure, or makes some other provision for its living quarters.

The lowest priced houses now being built in quantity in American cities today are of five and six rooms, with one-story construction apparently predominating in the five-rooms and two-story for the six-room size. Both are popular.

The six-room, two-story house is favored more in eastern cities whereas of the middle and far west, the five room bungalow is in the lead in the lowest price group. In the latter cities, however, the two-story house usually has six rooms.

The popularity of bungalows seems to continue in spite of the arguments of those who maintain that a family gets more for its money in a two-story house.

The modern "motor age" type of civilization is having a distinct effect on home building. The automobile, besides permitting residences to spread out into the suburban area, has affected the size, space and features of the lot and of the house.

For one thing, the front porch, a more or less distinctive American institution, is rapidly going out of style. This is because fewer and fewer people care to watch endless streams of passing motor cars, and the rear of the house is becoming more popular. Alleys are also going out of style and more attention is being paid to the appearance of backs of houses, and designers are called upon to provide for keeping such things as ash cans out of sight.

Now practically every owner requires a garage and as a result, the built-in garage in the modern home has worked its way down from the more expensive houses to the moderate priced field.

On streets where there is any considerable amount of automobile traffic and where garages are built-in or attached to the house, families want to live more and more at the back of the house. A sun parlor at the rear becomes fairly common and the rear living room is becoming more popular. An example of this trend is the home building project at Radburn, New Jersey, where the living room and other important rooms of the house face on a "garden court" which replaces the old background.

The radio, according to Mr. Taylor, is doing its part in keeping people at home and may have some connection with the tendency to provide sun parlors and sun porches which can be used as a second downstairs living room or as a porch, according to the weather. Fireplaces are

provided in a large majority of moderate priced houses and this too indicates a tendency towards making the home more of a center of social life.

Electricity in general has come to play a most important part in the design of homes. Its use for light, electric irons, toasters, refrigeration, operation of vacuum cleaners, washing machines, and most recently for heating by means of large hot water storage tanks which consume current provided at special rates during the hours after midnight when other power requirements are at a minimum, are examples of what this new element in American life is doing. All this involves more wiring and many outlets.

The bathroom, Mr. Taylor says, is more and more becoming one of the most conspicuous features of many new small houses.

"I recall one bathroom in a rural house selling for less than \$6,000," he said.

"Although small, it looked fit at least for a millionaire screen star, with its floor of black and white tile, buff colored tile wainscoting, special wallpaper showing sea scenes and the built-in bathtub with shower attachment.

Color is Vogue

"The bathtub on legs is going out of style, even in the lowest priced new houses. The types replacing it have practical as well as aesthetic advantages because they have no space underneath to be kept clean, and with the saving in floor covering the total cost of the bathroom may be only slightly greater. In the houses covered in our survey, three-fourths had tile floors in the bathroom, and about one-half tile wainscoting."

One of the most important recent trends in home building which has had a marked effect is the vogue for color, says Mr. Taylor. This has a good and highly commendable side, he points out, but it also has its difficulties. If a man paints his house or roof the wrong color he can easily repaint when he tires of it. Changing the color of certain materials and interior equipment, however, is impossible without actual replacement.

Another phase of the home building business has been the keen competition between manufacturers of materials and the resultant advertising campaigns. This competition has not only affected the demands of owners he points out, but has resulted in research into the best methods of using the different materials.

A distinct improvement has taken place in American architecture which shows that the average person is becoming more appreciative of good design and architectural treatment. More operative builders, according to Mr. Taylor, appreciate the importance of good architectural service and employ architects on their staff or as consultants.



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In a desire to please prospective owners, efforts to present something out of the ordinary have been directed more towards adapting historic and provincial styles than to pure exercise of the imagination which produced the so-called gingerbread ornamentation and other sad architectural features of past years.

The small builders' organization is likely to be weak on the matter of design. Control of the color, general type of the house and its height above the grade line of the property and its relation to the adjoining houses is almost as important as the design of the house itself, he points out.

The effect of the treatment of the kitchen door on adjoining properties, the effect of the height of the side terrace and lawn on adjoining homes, and the effect of some particular design on the already established design of other houses in the block all should be given consideration.

There has been considerable difficulty with bad combinations of colors and particularly with colors of various types of manufactured materials which, when assembled, are found to clash.

To improve the looks of a good building, attention should be paid to such things as grouping together houses of fairly comparative costs, keeping bungalows out of two-story house districts and two-story houses out of bungalow districts and adapting the style of house to the topography.—*Building Age*.

SCIENTIFIC RESEARCH ON BRICKLAYING AT MELLON INSTITUTE

An interesting example of collaboration between scientist and artisan is found in the broad scientific study of bricklaying

recently inaugurated by Mellon Institute of Industrial Research and the Eastern Face Brick Manufacturers' Association. The experiments are being carried out by Dr. F. O. Anderegg, Senior Industrial Fellow of the Institute's Multiple Industrial Fellowship on Portland Cement, and his assistants; architects, building contractors, and masons are aiding the work by contributing opinions and advice based upon experience.

So many varying factors are involved in the construction of a brick wall that it has been necessary to limit the experimental study to combinations of variables representing the probable range of practical application. Hundreds of thousands of experiments would be required if all possible combinations were to be studied. For this reason the research program has been under discussion for a considerable period of time, and the actual investigation was begun only when a satisfactory plan had been elaborated. Up to the present time some 300 experimental walls or panels have been erected on the grounds of Mellon Institute Building No. 2; a supplementary series will be constructed during the winter.

In brief, the investigation will cover certain aspects of all the factors involved in bricklaying. The most obvious points of attack are studies of the characteristics of different kinds of brick and mortar. Problems of special appeal to the practical man are those concerned with different methods of backing and with differences in workmanship. The design of walls and their relative elasticity are subjects which will be of considerable interest to contractors and architects.

Brick and mortar problems under investigation include the absorption and surface characteristics of brick, and differences in mortars due to varying the cementing materials, sand, and pigments.

Properties of the mortars which are being studied carefully are workability, compressive and transverse strength, absorption and permeability, shrinkage, durability, staining and efflorescence, and elasticity. Information is being collected to determine whether the 10 per cent of lime often specified by architects or the 25 per cent or more usually employed by brick masons gives better all-around results.

The problems in backing include a study of hollow tile of different sizes, of brick, of cinder or concrete block, of brick tile, and of metal or other lath in steel frame. Variations in workmanship are most apparent in regard to tapping, pointing, and the filling of head-joints. The first mentioned subject is being studied, not only in regard to the effect of excessive downward tapping into place, but also in regard to plumbing both before and after initial set.

Among the most important problems of design are the nature of the backing unit and the method of connecting the face and backing. Coping and parapet construction are likewise being investigated. Capillary contact with the ground and condensation allow moisture to penetrate into the wall and must be guarded against. Finally, a study of special interest in this day of high buildings is the elasticity of walls of different types.

Special mention should be made of weather problems. The experiments have been planned for the purpose of investigating the behavior of mortar with reference to the other variables in all types of climatic conditions.

The whole study provides an additional instance of the manner in which scientific methods are adapted to every day problems. Scientist and engineer, business man, architect, skilled workman, and laborer are all working together for the

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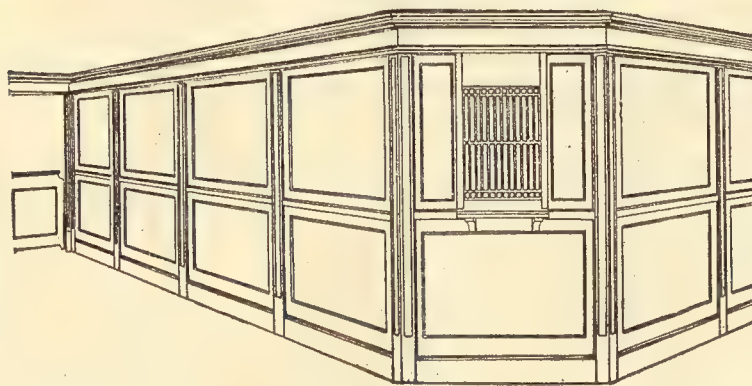
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BUSINESS WILL FINISH YEAR AT HIGH LEVEL

*Industry Generally Responds to Fall
Impulses, Fan Blower Survey
Shows*

Record sales of fan blowers and ventilating equipment during the first eight months of the current year, combined with a huge volume of unfilled orders for future delivery, carried with it assurances of a continuation of unusual industrial and business prosperity for the last quarter, according to J. F. G. Miller, of Detroit, vice-president of the National Association of Fan Manufacturers, and an outstanding spokesman of the industry.

"Despite a tightening in the credit situation, industry and commerce are responding encouragingly to the buying impulses of Fall, while inquiries from industrials for air handling equipment indicates that leaders generally are confident that 1930 will bring a new peak of activity in special lines," Mr. Miller said. "The motor industry seems to have passed its summer low mark, while there are sound reasons for believing that the steel industry will be following the upward curve early in October."

Mr. Miller notes an aggressive expansion of new building activity in certain directions, particularly among public utilities, and new industrial plants. The phenomenal prosperity of the big public utilities has brought about large scale construction of new power plants and other buildings as reflected by the demand for mechanical draft equipment which has proven a boon to the utilities in increasing power production, Mr. Miller said.

"It is significant that manufacturing plants, builders of new structures and railroads would not be investing heavily in mechanical ventilation and other improvement if the outlook did not warrant confidence," Mr. Miller pointed out. "We have been able, year after year, to accurately forecast the business trend in important lines of our sales prospects and a careful checking of this fan or blower index gives us every worthy reason for believing that business generally during the next 90 days will run safely above a normal good average."

"Exports of our own products this year were far above the record of last year. With the opening and broadening of new markets abroad, due to greater foreign appreciation of American com-

forts, this channel for new business will become even more important."

Reports received by Mr. Miller showed that the prosperity of the ventilating manufacturers has been shared also by allied interests such as several of the largest electrical industries in the sale of refrigerating apparatus for air cooling and of motors for operating fans.

The fan association's survey of the business situation included reports from such widely distributed and important manufacturers as: the Buffalo Forge Company of Buffalo; the American Blower Corporation of Detroit; Bayley Blower Company of Milwaukee, and three in Chicago: Ilg Electric Ventilating Co., Garden City Fan Co., and the New York Blower Co.

CO-OPERATION NEEDED IN BUILDING INDUSTRY

THE BUILDING industry is like Europe where each country is afraid of and antagonistic to the others and never feels secure. This is because they are not acquainted with each other and are always suspicious of the others' motives. The cause of the whole trouble is *ignorance* which generates fear.

THAT IS the trouble with the building industry. Knowingly or not, many of the elements of it do not have an understanding of the real function of the others and ignorantly assume an undue importance for themselves and depreciate the true importance of the others.

NOW, THE most complicated thing in the world is the modern building. From first to last it involves a host of men, trades and professions, each capable of carrying on his own part. But no one man, trade or profession can produce a building alone. Collaboration is necessary.

TRUE COLLABORATION by the numerous factors can only be realized when each one admits its necessity. Then only will the ignorance of the others' functions and importance vanish.

THE WHOLE industry is out of balance and no one factor is receiving its just compensation and profits. The organized trades are the only exception and their strong position results from each trade backing up the other for the benefit of all. They are not concerned each with the true function of the other—it is a case of self preservation.

WITH THE trades out of the way, what of those professions which make the industry possible? The architect, the several branches of the engineering profession, contractors and manufacturers have a common interest and meeting ground—the plans and specifications. The differences that exist between those who contribute to and execute the plans and

specifications are not to be adjusted by trades' methods but by other means.

THIS COMPLEX thing—the plans and specifications—is the product of people qualified for their particular work. Each contributes personal services and they must be in correct adjustment each with the other. It can be produced only by joint action which involves interdependence.

INTERDEPENDENCE IS galling to those who suffer from "arrogant ignorance"—not only to their own detriment but the detriment of all the others. Interdependence is inescapable and is an actual condition and not a theory. Interdependence must be accepted willingly before the industry can be balanced. While it is absolutely true that "on the structural frame hang all of the building and its contents," it is equally true that the structural frame alone does not constitute a building.

STRUCTURAL ENGINEERS realize this and also the interdependence of structural engineering and other professions, contractors and manufacturers. They are confronted with many adverse conditions that must be corrected and at the same time they realize that the other professions, contractors and manufacturers are confronted with their own adverse conditions.

GET TOGETHER, then, seems to be the only basis for an equitable adjustment of the ills that afflict the building industry. "Get together" involves an understanding of the function, the process, the responsibility and the relationships of each party. To do this, each party must advise the others of their own particular position in the industry, the ills from which they suffer and the causes of these ills.

FAIRPLAY and a decent spirit of sportsmanship, when a mutual understanding arrives and ignorance—arrogant or otherwise—is abolished, will adjust the relationships that exist in the building industry to the benefit of all.

Correct relations are the bases of social and economic welfare.

On the structural frame hang all of the building and its contents.

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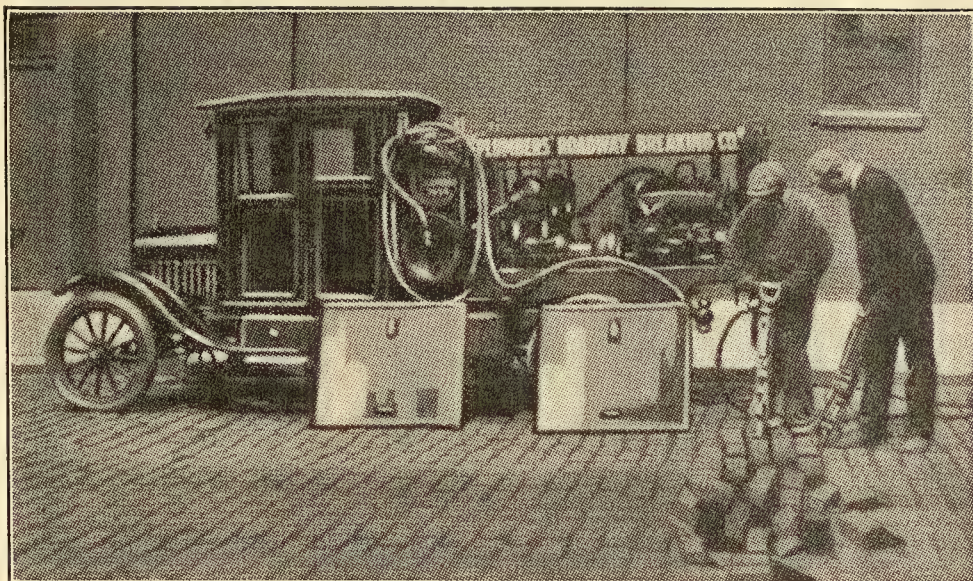
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Executive Director, American Institute of Steel Construction, Inc.

Today successful businesses are conducted on an entirely different plan from that which prevailed in the pre-war days.

To manage a business successfully requires as much courage as that possessed by the soldier who goes to war. Business courage is the more natural because all the benefits which the public has in material wealth come from it.

The problem of sales management is far more important than it ever was. We must not only teach our salesman how to sell, but, what is of greater importance, we must teach the public how to consume.

There are many sales executives who have come to the conclusion that we are passing from the age of *salesmanship* to that of *consumership*. We are shifting the emphasis from the old personal arts of salesmanship to the *statesmanship of consumption*. We are interested more in creative spending than we are in clever selling. The problem of *sales management* is of greater importance than it ever was.

In the past, business has been operated on what we may call the economy principle, the principle of paring down and of saving; and it has a wonderful and worthy background. America would never be what is without it.

But as this policy has had to pass; as we now understand that the hold-tight, spend-as-little-as-you-can principle must give away to a new more constructive and aggressive outlook—so business is now beginning to emphasize the principle of *creative spending* rather than that of pinching economy. We feel it in our family, in our business, and in our national attitude.

We do not need the old quality of *caution* today nearly so much as we need the new, the courage to plan and chart enterprise. In days when panics were just around the corner we naturally needed a great deal of caution and watch-dogging, but the panics of business are gone.

We now have bigger things than merely guarding what we already have. We have a vast creative job ahead of us to raise the standards of living of the 73 millions of people who still exist at or below the Minimum Comfort Level.

We now know that if we are selling industrial equipment our market is limited by the sales of our customers to the public. If they could sell more we could sell more to the factories; therefore the need of studying conditions that underly consumer buying.

We are discarding the old economic

idea that business is limited and that we must fight like three dogs over two bones to get it. We are realizing that in industry full of unequal units—some very modernly tooled and some poorly tooled; some using up-to-date methods and some ancient methods; some practicing enlightened principles and some practicing unwise principles—need not be accepted with no change possible, simple as the way fate deals out the cards.

We know that something *can* and *must* be done about it. We must lift up an entire industry toward a higher average in tools, methods, and business principles. We are willing to spend money to accomplish it—a great deal of money, individually and collectively. That is courageous and creative spending, the statesmanship of consumption, and genuine progress.

Cyrus Curtis, head of the Curtis publishing interests, once said he had an executive in his employ whom he had to discharge *because he could never teach the man to spend enough money!* The man had been trained in the old school where all the credit went to the man who *saved* the most.

When the time came for a decision to spend \$100,000 of Cyrus Curtis' money,

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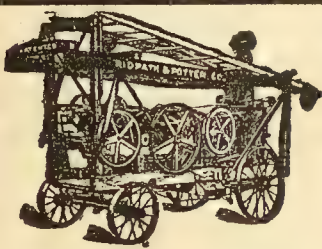
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promptly and effectively, this man's hand trembled, he procrastinated, and the business suffered. Of course, some other men, even more incompetent, might have spent too lavishly and thoughtlessly. What was needed was a well balanced, keen-minded man who knew how to spend creatively; a man who would decide promptly and courageously, and then spend.

No better illustration of courageous spending exists than that of Ray Smith, Pres., of the A. O. Smith Co. of Milwaukee. With nothing but an idea, about eight million dollars were appropriated and expended before the idea was found to be practical. A great deal of courage and a lot of money was required but the production of automobile chassis was increased from a few hundred to 10,000 per day. At the same time the manual staff was decreased to a fraction. Four hundred engineers engaged in research made possible another reduction in the sales force and only 8 are now required to dispose of the output. To go a step further the same idea was perfected to apply to welded steel pipe with the result that 26 miles of pipe per day are now being shipped. Simultaneously every other plant engaged in producing automobile chassis and steel pipe was rendered obsolete, unable to compete with such remarkably low costs. Without the courage and the spending as inaugurated by this one man the public would never have received the benefits of these unusual results in cost reductions.

Instead of the hang-on-to-the-dollar type, there was needed the spend-plenty-of-money promptly-on-competent-analysis type. The old guiding general principle was *saving*; the new principle is *construction*. Both are wonderful, useful American traits, but right now we need the latter type.

Business is now being transacted on a large scale because our people have the income which makes large scale consumption possible. Small business units cannot successfully serve such a public demand. There have been nearly two

thousand mergers in the past two years. More are to follow because it is the large organization that alone can meet efficiently the problems of distribution that modern conditions are creating.

Where smaller units of industry can operate economically in the field of production they are organizing into institutes and similar associations in order that they may take advantage of the economies possible through co-operative effort in the field of distribution.

These organizations, as well as co-operative merchants, are successful only so far as men can be found who can operate them, men who understand big scale spending, men who can courageously authorize creative advertising appropriations running into millions of dollars and conduct their affairs with the greatest economies; men who can competently make big decisions and make them promptly when the necessary facts are in, and if the facts are not in, then go out and get them. That is the modern research technique which moulds the judgment of the courageous spender.

We have already learned, as Carnegie taught us in the steel industry, that our plans should be for tomorrow's greater profit. This is what should govern our spending today—not what we did or spent last year. Carnegie scrapped one steel process after another, sometimes before the shine was off the million-dollar equipment, simply because he was investing in greater future profits and a greater competitive advantage. By doing so he plucked the steel leadership right out of England's hands, never to return.

The steel skyscraper has done the same. So profitable is this creative process that we are tearing down modern buildings, only ten or twelve years old, to erect others in their place which will make more money for the owners. A man who owns a 12-story building, fairly modern and built ten years ago, standing on ground rapidly becoming more valuable, finds that he is unable to get out of that building a proper return on the in-

(Continued on page 653)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Nurses' Home, Northeast Corner Eighth and Pine streets, Philadelphia. Sketches drawn. Work contemplated. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Pennsylvania Hospital, Eighth and Spruce streets, Philadelphia. Brick and stone, steel. Present building to be torn down and new building erected.

Residence Development, \$25,000 to \$50,000. City Line, Green Hill road, Sherwood road, Sixty-ninth, Seventieth, Seventy-first, Seventy-second streets, Overbrook, Pa. Plans to be drawn soon. Construction to be started in spring of 1930. Architect, private plans. Owners, J. Franklin Moss & Co., 6225 Lancaster avenue, Philadelphia. Stone, various sizes and heights.

Service Station, Southwest Corner Third and Dock streets, Philadelphia. Plans in progress. Architect, private plans. Owners, Pure Oil Company, care of C. D. Reid, Widener Building, Philadelphia, Pa. Hollow tile and stucco, 1 story, 25x59 feet, electric light, tile roof, cement floors.

Service Station, Northeast Corner Frankford avenue and Sach street, Philadelphia. Plans in progress. Architect, private plans. Owners, Pure Oil Company, care of C. D. Reid, Widener Building, Philadelphia, Pa. Hollow tile and stucco, 25x59 feet, tile roof, cement floor, electric light.

Residence and Garage, Creeld avenue, Chestnut Hill, Philadelphia, Pa. Plans in progress. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Walter D. Barnes, care of General Pressed Metal Co., 1524 North Hancock street, Philadelphia. Details undecided.

Auto Show Room and Service Station, Frankford, Philadelphia, Pa. Plans in progress. Architect ready for bids in two weeks. Architect, Christian H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, name withheld. Brick, limestone, 2 stories, 50x130 feet, steam heat, slag roof, plate glass, elevators.

Motion Picture Theatre, Point Breeze avenue and Oakford street, Philadelphia. Revised plans in progress. Architect ready for bids in a week. Architect, L. A. Manfredi, 2228 Mifflin street, Philadelphia. Owner, Lawstal Company, care of architect. Brick, steel, concrete, cast stone, 1 story and basement, 53x112 feet, steam heat, electric, metal lath, tile, or-

namental iron work, slag roof, cement floors.

Apartment Building, 5900 North Broad street, Philadelphia. Architect ready for bids in a few days. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Sanford Corporation, care of architect. Brick, steel, reinforced concrete, 6 stories and basement, 80x235 feet, vapor heat, oil burners, electric light, metal lath, tile, marble, terrazzo, kalamain floors, slag and slate roof, oak and cement floors, elevators, plumbing, electric refrigeration, kitchen equipment, laundry equipment.

Office Building and Store, Southeast Corner Eighth and Sansom streets, Philadelphia. Architect ready for bids in a week. Architect, Ralph Bencker, Northeast Corner Thirteenth and Chestnut streets, Philadelphia. Owner, name withheld.

Church Alterations and New Sunday School Building, Seventy-second and Elmwood avenue, Philadelphia. Architect ready for general bids. Architect, Adiel Martin Stern, 413 North Thirty-eighth street, Philadelphia. Owners, Karmel Reformed Church, Rev. W. G. Weiss, 2434 South Seventy-second street, Philadelphia. Brick and steel, 2 stories and basement add. 40x60 feet.

Shop, \$2,500. South side Eastwick avenue, East of Eighty-seventh street, Philadelphia. Permit issued. Architect, private plans. Owner, John Maek, 8728 Eastwick avenue, Philadelphia. Brick, 1 story, 26x30 feet.

Office and Shop, \$25,000. South side Hunting Park avenue, West of American street, Philadelphia. Permit issued. Owners, Philadelphia Rapid Transit Co., Mitten Building, Philadelphia. Brick, 2 stories, 38x48 feet.

Residences (3), \$12,000. West side Frontenac street, North of Lansing street, Philadelphia. Permit issued. Architect, private plans. Owners, Boardman & Smith, 1520 Chestnut street, Philadelphia. Brick, 2 stories, 27x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Temporary Building, \$2,500. Northeast Corner Twentieth and Windrim avenue, Philadelphia. Permit issued. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Iron on iron, 1 story, 24x22 feet.

Residences (14), \$61,000. South side Robins avenue, West of Erdrick street, Philadelphia. Permit issued. Architect, private plans. Owner, Edgar M. Davenport, 6150

North Seventh street, Philadelphia. Brick, 2 stories, 15x34 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Storage Building, \$10,000. Northwest Corner Richmond and Kennedy streets, Philadelphia. Permit issued. Owners, Charles Lennig Co., 222 West Washington Square, Philadelphia. Iron, 1 story, 120x84 feet.

Residences (2), \$7,000 total. 3315-17 Almond street, Philadelphia. Permit issued. Architect, private plans. Owner, Stanislaus Ozga, 3370 Salmon street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Gas Station, \$5,000. Southeast Corner Island avenue, Elmwood avenue and Passyunk avenue, Philadelphia. Permit issued. Owners, Standard Oil Company, Public Ledger Building, Philadelphia. Brick, 1 story, 18 feet 9 inches x 39 feet 3 inches.

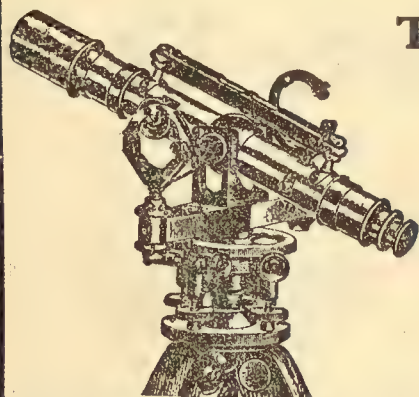
Repairs, United States Appraisers' Stores, 134 South Second street, Philadelphia. Low bidders: Thomas B. Monaghan, 2009 Sansom street, \$3,998; Special Products Co., Bristol, Pa., \$4,100. Architect, private plans. Owners, United States Custom Service, Lincoln Acker, Custodian, Chestnut street, below Fifth street, Philadelphia. Painting, repairs to roof, carpentry and mill work, linoleum floors, general interior alterations.

Contract No. 58 (repairs and alts.) Fire Station, Engine Company No. 59. Low bidders: Haverstick & Borthwick, 1505 Race street, \$3,721; William G. Haggerty, 34 South Seventeenth street, \$3,798. Owners, Department of Public Works, Bureau of City Property, 903 City Hall Annex, Philadelphia.

Demolition and Removal of Stone and Appurtenant Work, brick building, on South side of Allen's Lane, West of Ryan street, Philadelphia. Low bidders: John Devlin, Jr., Hancock and Thompson streets, Philadelphia, \$375, \$275; James F. O'Rourke, 950 North Fiftieth street, Philadelphia, \$750, \$100.

Contract No. 229, Broad Street Subway, Philadelphia. Low bidder: John Borden & Bro., 637 North Nineteenth street, Philadelphia, Pa., \$17,608.50. Architect, private plans. Owners, Department of City Transit, City Hall Annex, Philadelphia. Plumbing, sewage ejectors.

Repaving Broad Street, Kater to South Penn Square, Contract No. 197, and Pine street, Broad to Thirteenth, and Thirteenth street, from Pine to Lombard street, Philadelphia. Owners taking bids due Oct. 11th, at 12 noon. Owners, City of Philadelphia, Department of City Transit, C. E. Myers, Director, Thirteenth Floor, City Hall Annex, Philadelphia.



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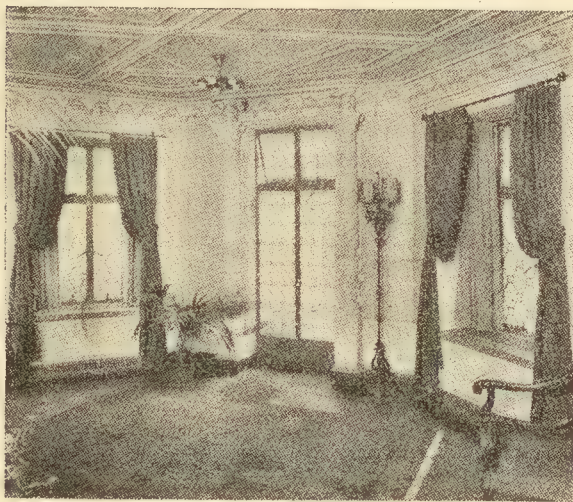
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Miscellaneous Road Work, Philadelphia, Pa. Low bidders. Harrison street, from Montour to Bingham street, Philadelphia, Marino Masse, 3936 North Reese street, Philadelphia, \$3,187.42. Cheltenham track area, Wayne avenue to Germantown avenue, Philadelphia, United Paving Co., Widener Building, Philadelphia, \$14,920.72. Cheltenham ave. (track area), Germantown ave. to Morton street, Phila., C. G. Centrone, 6339 Race street, Philadelphia, \$15,359.35.

Day and Zimmerman, Engineers, 112 N. Broad Street, Philadelphia, taking bids due October 18th for flood lights, fabricated pipe

and Bromazlun treads for use at New Eastern State Penitentiary.

Penna. R. R. Contract No. 45, Portland Cement. Contract No. 46, Structural Steel. Owner, Penna. R. R., C. E. Walsh, Room 145, 15 N. 32nd St., Phila. Owner taking new bids due October 11th.

Temporary Mezzanine and Alts., 1645 N. Broad St., Phila. Architect taking bids due October 11th. Architect, Paul Cret, 112 S. 16th St., Phila. Owner, Tenth National Bank, Integrity Trust Co., on premises. Heating, electric, marble, pine floors, demolition, painting, glazing, carpentry and millwork, bond.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

High School Building, Corinthian and Girard avenues, Philadelphia. Contract awarded United Engineers & Constructors, Broad and Arch streets, Philadelphia, who are taking sub-bids due October 8th. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Engineers, Day & Zimmerman, 112 North Broad street, Philadelphia. Owners, Girard College, on premises. Brick, limestone and steel, 4 stories and basement, steam heat, electric light, metal lath, tile work, slag roof, cement and maple floors, plumbing. Haverstick & Borthwick, Schaff Building, Philadelphia, figuring on mill work, cement finish and structural steel.

Apartment House, High and Baynton streets, Germantown avenue, Philadelphia. Contract awarded Aldine Construction Co., Wesley Building, Philadelphia, who are taking sub-bids due October 9th. Architect, Clarence L. Caspary, 1701 Walnut street, Philadelphia. Owners, High Courts Apartments, care of contractor. Steel, brick and concrete, 4 stories and basement, 259x189 feet, 104 apartments, vapor heat, electric light, metal lath, tile, marble, ornamental iron work, slag roof, hardwood floors, (2) automatic elevators, refrigerators, laundry equipment, cast stone trim.

Store Building, 3707 Walnut street, Philadelphia. Contract awarded S. Yellin & Son, 222 North Eleventh street, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Jacob Sporkin, 5803 Larchwood avenue, Philadelphia. Brick, steel, limestone, 2 stories and basement, 125x24 feet, steam heat, electric light, metal

lath, tin-clad doors, steel casement windows, ornamental iron work, plumbing, slag roof, maple and cement floors, elevators, toilet partitions.

Sales and Service Station, South side Hunting Park avenue, East of Germantown avenue, Philadelphia. Contract awarded Golder Construction Co., 1600 Arch street, Philadelphia. Architect, Engineer of General Motors Co., Detroit, Mich. Owners, United Motor Service, Inc., 342 North Broad street, Philadelphia. Brick, steel, 1 story, 58,000 square feet, slag roof, cement floors, plate glass, electric light.

Residence, Chestnut Hill, Pa. Contract awarded J. Riley & Son, Forrest avenue and Mt. Airy. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Harold R. Shirley, 1012 Packard Building, Philadelphia. Stone, 2½ stories, 44x70 feet, shingle roof, hardwood floors, tile, electric work, oak and pine floors, painting, glazing, ornamental iron work, casement windows, flagstone, bluestone (heating, electric, screens, finished hardware, plumbing reserved).

Residence, Chestnut Hill, Pa. Contract awarded H. E. Grau, 2125 Cherry street, Philadelphia. Architect, Edmund B. Gilchrist, Drexel Building, Philadelphia. Owner, F. Hemsley Levis, Chestnut Hill, Pa.

Store Building, Fifteenth and Fairmount avenue, Philadelphia. Contract awarded Frank G. Stewart, 1520 Locust street, Philadelphia. Architect, S. Brian Baylinson, Franklin Trust Building, Philadelphia. Owner, Benjamin Barron, Packard Building, Philadelphia. Brick, steel, 1 story and basement, 40x65 feet

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Contract No. 228, Subway Enclosure, Broad Street Subway, Philadelphia. Contract awarded Smyser & Royer, 1700 Walnut street, Philadelphia. Owners, Department of City Transit, Thirteenth Floor, City Hall Annex, Philadelphia.

Watchmen's Quarters, Front and Olney avenue, Philadelphia. Contract awarded Albert Foster, 5614 North Second street, Philadelphia. Architect, private plans. Owners, Heinz Manufacturing Co., care of Mr. D. S. Light, on premises. Brick, 1 story, 12x20 feet, slag roof, cement floors.

Alterations, 242 South Thirteenth street, Philadelphia. Contract awarded D. A. McClelland, Drexel Building, Philadelphia. Architect, George S. Idell, Corn Exchange Building, Philadelphia. Owners, Pennsylvania Casualty Insurance Company.

Residences (add.), \$2,750. 3024 Midvale avenue, Philadelphia. Contract awarded McClintock & Weaver, 24 West Phil-Ellena street, Philadelphia. Owner, R. A. Remick, on premises. Architect, L. V. Boyd, 1215 Harrison Building, Philadelphia. Stone, 2 stories, 8 feet 8 inches x 14 feet 4 inches. Note correction.

Residence (add.), \$2,975. 534 McKean street, Philadelphia. Contract awarded Abe Bail, 2330 South Sixth street, Philadelphia. Architect, private plans. Owner, Jacob Nela-tin, on premises. Brick, 2 stories add., 11x19 feet.

Shop (add.), \$9,000. 102 East Mermaid Lane, Philadelphia. Contract awarded S. W. Kistleman, 125 East Upsal street, Philadelphia. Owners, Yarnall-Waring Co., on premises. Brick, 1 story add., 50x80 feet.

Residence (add.), \$2,500. 6228 North Camac street, Philadelphia. Contract awarded Frank G. English & Son, 1608 North Carlisle street, Philadelphia. Owner, Edwin H. Moyer, on premises. Brick, 2 stories add., 14x28 feet.

Residence and Store (alts. and add.), \$2,400. 1710 South Ninth street, Philadelphia. Contract awarded Lorenzo Anastasia & Son, 1012 Mountain street, Philadelphia. Owner, Marina Robbina, 909 Morris street, Philadelphia. Brick, 1 story add., 16x46 feet, general alterations.

Residence and Store (alts.), \$2,000. 4500 Frankford avenue, Philadelphia. Contract awarded Buzby & Propert, 1658 Unity street, Philadelphia. Owners, Schlater, Inc., on premises. General alterations.

Office (alts.), \$8,500. 424 Walnut street, Philadelphia. Contract awarded F. B. Davis & Son, 240 North Sixteenth street, Philadelphia. Owner, Beidler & Bookmeyer, on premises. General alterations.

Residence (add.), \$7,500. 6703 Lincoln Drive, Philadelphia. Contract awarded John R. Erbe, 2551 North Sixth street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, Dr. Walter T. Annon, on premises. General alterations and addition.

Slaughter House (add.), \$2,500. 230 Moore street, Philadelphia. Contract awarded Charles Allabone, 212 Morris street, Philadelphia. Owners, Cross Brothers, 1800 South Seventh street, Philadelphia. Addition.

Bakery, \$2,400. Northwest Corner Tulip and Van Kirk streets, Philadelphia. Contract awarded William Ludwig, 5709 Erdrick street, Philadelphia. Architect, private plans. Owner, Elmer Eadinger, on premises. Brick, 1 story, 25x75 feet.

Pennsylvania Construction News

Central Heating Plant, Upper Darby, Pa. Work contemplated. Architect, private plans. Owner and builder, John M. Arovitch, Drexel Hill, Pa. Project to be approved. Brick and steel, 1 story, 65x75 feet.

Residence Development, Paoli, Pa. Work contemplated. Architect, Walter K. Durham, 312 S. Broad st., Phila. Owners, Durham & Irvine, 312 South Broad street, Philadelphia. Stone, 2½ stories, various sizes.

Church and Sunday School, Norristown, Pa. Architect selected. Architects, Office of John B. Thomson, 1321 Arch street, Philadelphia. Owners, Asbury Methodist Episcopal Church, Rev. W. H. Shawn, Rev. William May, both of Norristown, Pa.

Library Building, Shippensburg, Pa. Architects selected. Plans in progress. Architects, Tilden, Register & Pepper, 1606 Walnut street, Philadelphia. Owners, Shippensburg State Teachers' College, Shippensburg, Pa.

Bank (add.), Wyoming avenue and Spruce street, Scranton, Pa. Architect selected. Architects, Davis & Lewis, Scranton Elec. Building, Scranton, Pa. Owners, Traders' National Bank, D. Atherton, President, on premises. Fireproof, about 8 stories. Details undecided.

Biology Building, Swarthmore, Pa. Preliminary plans in progress. Architects, Karcher & Smith, 1520 Locust street, Philadelphia. Owners, Swarthmore College, Dr. Frank Aydelotte, President; Andrew Simpson, Engineer, Swarthmore, Pa. Stone, brick and steel.

Twin Residences (3 pair) (alts. and add.), Bryn Mawr, Pa. Plans in progress. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Philip Harrison, 17 West Lancaster avenue, Ardmore, Pa. Consists of general interior alterations.

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Store (alts. and add.), Bryn Mawr, Pa. Plans in progress. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Louis Harrison, 17 West Lancaster avenue, Ardmore, Pa. Limestone, structural steel, brick work, general interior alterations.

Hospital (3 buildings, alts.), Norristown, Pa. Plans in progress. Architects, Stewart A. Jellett Co., 1200 Locust street, Philadelphia. Owners, Norristown State Hospital, Dr. S. M. Miller, Superintendent, Norristown, Pa. Re-roofing of main building and alterations to (2) buildings.

Store Building, York road and West avenue, Jenkintown, Pa. Plans in progress. Architect, private plans. Owner and builder, Harry R. Rust, 41 North Hutchinson street, Philadelphia. Brick and steel. Too early for details. Owner will build.

Administration Building, Receiving Office and Ward Building, Waymart, Pa. Plans completed. Owners will soon take bids. Architects, Charles L. Hillman & Son, 400 Chestnut street, Philadelphia. Owners, Fairview State Hospital, W. L. Lynch in charge, Waymart, Pa.

Residences and Garages (3), Melrose Park, Pa. Plans about completed. Owners ready for general bids in about one week. Architect, Max A. Bernhart, 127 South Eighteenth street, Philadelphia. Owners, Steel Built Homes Corporation, care of L. M. Heggdorn, 6720 York rd., Phila. Steel, frame, stone 2½ stories, 35 x 32 ft., garages, 20x24 ft., steel joists, steel rafters, steel partitions, slate roof, hot water heat, metal lath, copper piping and spouting, tile, hardwood floors.

Aquarium and Green House, Villa Nova, Pa. Plans completed. Architect ready for general bids October 10th. Architect, L. A. Manfredi, 2228 Mifflin street, Philadelphia. Owner, Warren C. Graham, Fox Building, Philadelphia. Frame, 2 stories, 10x12 feet, wood shingle roof, concrete footing, steel sash, electric work, gas steam heat.

Residence (alt.), 306 Highland avenue, Abington, Pa. Architect taking sub-bids due as soon as possible. Architect, Robert L. Gill,

5600 Germantown avenue, Philadelphia. Owner, name withheld. Alterations consist of tile work, add. to hot water heating, plumbing, plastering, painting, glazing, stucco work, hardwood floors, wood shingle roof, electric work, carpentry and mill work, flagstone walk.

Hospital (add.), \$100,000. Scranton, Pa. Architect will be ready for bids next week. Architect, H. A. Duckworth, 711 Linden street, Scranton, Pa. Owners, Moses Taylor Hospital, Quincey avenue, Scranton, Pa. Brick, stone and steel.

Church (add. and alts.), \$125,000. Nanticoke, Pa. Architect will be ready for bids next week. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Holy Trinity Roman Catholic Church, Rev. Wienotowski, Nanticoke, Pa. Brick, steel, stone, 82x43 feet, 35x67 feet, tower 130x20x20 feet, tile roof, wood floors, electric light, tile and marble.

Gymnasium Building, West Chester, Pa. Architect ready for bids in one week. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, West Chester State Teachers' College, West Chester, Pa. Stone, steel, brick, concrete.

Residence, State and Lafayette roads, North of Bryn Mawr Station, Bryn Mawr, Pa. Owners will build. Owners, Wallace & Warner, Franklin Trust Building, Philadelphia. Stone, 2½ stories, various sizes, slate roof.

Fire Reconstruction, 5860-62 East Main street, Norristown, Pa. Owner will build. Architect, private plans. Owner, Harry E. Elston, on premises. Brick, limestone, 2 stories, 50x50 feet, hot water heat, slag roof, pine floors, plate glass, electric.

Grade School (add.), Royersford, Pa. Owners taking bids due November 7, at 7.30 P. M. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford School District, Mrs. M. Latshaw, Secretary, Royersford, Pa. Brick, 1 story, 65x148 feet, built-up roof, pine floors, limestone (plumbing, heating and electrical work separate).

High School, Dickson City, Pa. Owners taking bids due October 15th. Architect, J. A.

McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Dickson City School Board, F. Wieland, Secretary, Dickson City, Pa. Fire-proof, 2 stories and basement, 154x137 feet, slag roof, yellow pine floors, safety treads, roof ventilators, dampproofing, iron stairs, fire doors, steel sash and skylights, tile, terrazzo, metal lath (heating, plumbing and electric separate).

School Group (11), Hanover Township, Pa. Owners taking revised bids due October 18th. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Hanover Township School Board, H. J. Williams, 23 Ridge street, Ashley, Pa. General repairs, heating, plumbing and electrical work.

Bank (alts. and add.), Fourth and Market streets, Chester, Pa. Architect taking bids due October 12th. Architect, Clarence Brazer, Crozier Building, Chester, Pa. Owners, Delaware County National Bank and Pennsylvania Title & Trust Co., Chester, Pa. Brick and steel, 1 story, mezzanine and basement, 40x62 feet, steam heat, electric light, metal lath, bond, ornamental iron work, slag roof, cement floors.

Grade School, Phoenixville, Pa. Preliminary plans in progress. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, School Board of Schuylkill Township, Mrs. Gertrude A. Ebeerle, Phoenixville, Pa. Brick, steel, 1 story.

Alterations and Addition, School, Croyden, Bucks County, Pa. Architect taking bids due October 11th. Architect, Henry P. Dagit, 1329 Race street, Philadelphia. Owners, St. Thomas Aquinas' Roman Catholic Church, Rev. Thomas J. Nolen, Rector, Croyden, Pa. Brick and steel, 1 story and basement, 56x53 feet, bond, excavation, concrete and cement work, waterproofing, steel and iron work, area gratings, dampproofing, hollow tile, carpentry and mill work, yellow pine floors, built-up roof, hardware, metal ceilings, metal lath, plastering, painting, glazing, plumbing, electric work, steam heating.

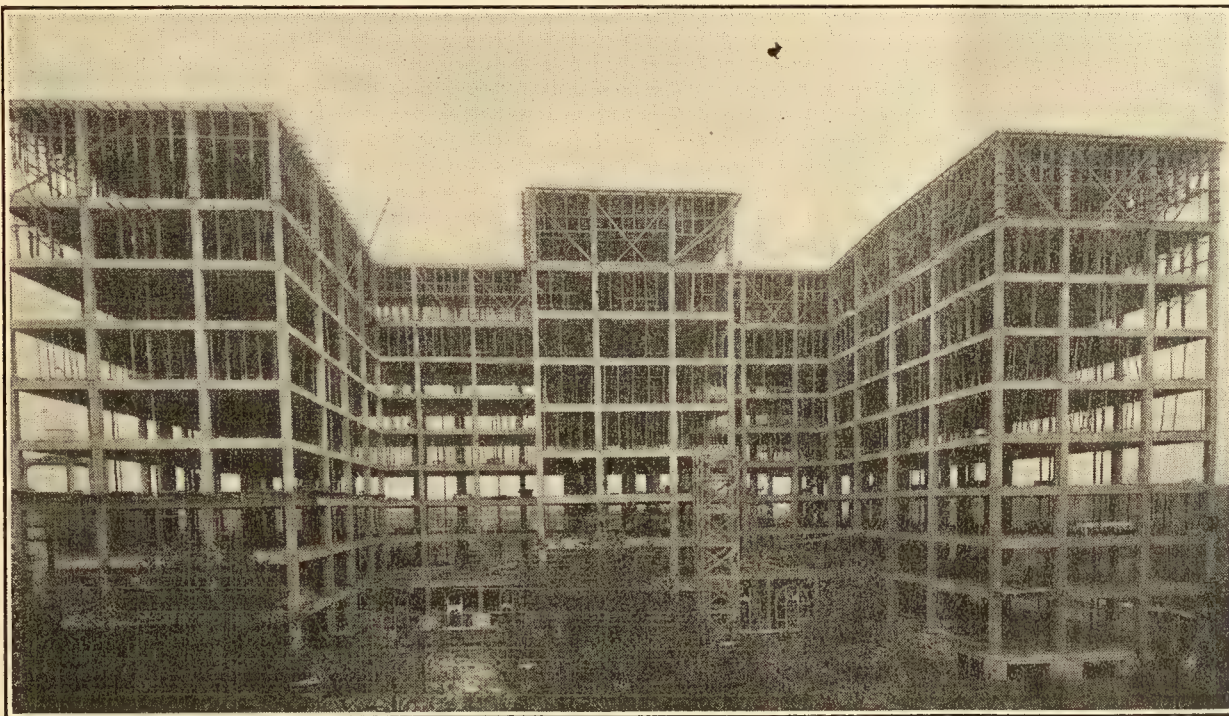
Country Club, Reading, Pa. Architect taking bids due October 15th. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading Country Club, Philadelphia road, Reading, Pa. Stone, 2½ stories, 160x80 feet, slate roof, tile and marble work, steam heat, electric light, steel sash, sprinkler system, septic tanks, kitchen equipment, ornamental iron, brass pipe, incinerators.

Synagogue, 242 South Franklin street, Wilkes-Barre, Pa. Architect taking revised bids due October 15th. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Ohagzedek Hebrew Congregation, 300 East South street, Wilkes-Barre, Pa. Brick, steel, 1 story and basement, 68x120 feet, slag roof, hardwood floors, hollow tile, roof ventilators, waterproofing and dampproofing, architectural terra cotta, bronze, ornamental iron, tile, marble, metal lath, electric.

Country Club (add.), Easton, Pa. Architect taking bids due October 10th. Architect, William Michler, Drake Building, Easton, Pa. Owners, Northampton Country Club, Mr. Walters, Chairman, Easton, Pa. Frame, stucco, 2 stories, 50x50 feet, asbestos shingle roof, maple floors, electric light, tile work.

Residence (alt. and add.), Overbrook Hills in Merion, Pa. Architect taking general bids from McWilliams & Maloney, Overbrook Hills in Merion, who are taking sub-bids on all lines. Architect, E. A. Wilson, 1600 Arch street, Philadelphia. Owner, Elmer Mather, City Line and Henly road, Overbrook, Pa. Stone, frame, 20x35 feet, 3 stories, irregular, central heat, electric, tile, marble, rolled tile screens, creodipt shingle roof, hardwood and specially treated floors.

Residence and Garage, Moylan, Pa. Architect taking bids. Architect, E. Kenny Crothers, Media, Pa. Owner, Edward F. Beaty, Moylan, Pa. Stone, frame, 2½ stories and basement, 34x90 feet, hot water heat, oil burn-



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ers, electric light, tile work, ornamental iron work, shingle roof, oak and yellow pine floors.

Farm Show Building, Eleventh and Maclay streets, Harrisburg, Pa. Owners taking revised bids due October 23rd, 2 P. M. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owners, State of Pennsylvania, Department of Property and Supplies, Frank St. Clair, Jr., Chief Engineer, Harrisburg, Pa. Deposit, \$50, refunded. Certified check. Bid No. 1, \$50,000. Heating and ventilating, \$10,000. Electric work, \$10,000. Plumbing, \$10,000.

Garage (alts. and add.), White Horse, Paoli, Pa. Architect taking bids due October 14th, noon. Architect, Carl Ziegler, 1012 Walnut street, Philadelphia. Owner, Alfred E. Pfahler, on premises. Stone and frame, 2 stories and basement, electric light, shingle roof, yellow pine floors, painting.

Residence, Guernsey road, Swarthmore, Pa. Architect taking bids due October 12th. Architect, Edward Rorke, Glenside, Pa. Owner, C. H. Brower, care of architect. Stone, 2½ stories.

Residence (alts. and add.), near Jeffersonville, Pa. Architect taking bids due October 11th. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, John A. Longacre, 926 West Marshall street, Norristown, Pa.

Surface Treatment, over Aldan Boulevard, Walnut Terrace, from Glenwood to Linden avenue, Bonsall and Shisler avenue. Certified check, \$100. Owners taking bids due October 18th. Engineers, Damon & Foster, Sharon Hill, Pa. Owners, Borough of Aldan, R. E. Kraber, Secretary, Woodlawn and Providence roads, Aldan, Pa.

Show Room and Warehouse, 400 Block Poplar Street, Scranton, Pa. Architect taking bids due October 10th. Architect, John H. Weida, 1425 Dickson Ave., Scranton, Pa. Owner, National Casket Co., Inc., Scranton, Pa. Brick, steel, limestone, reinforced concrete, 3 stories and basement, 40x120 feet, (plumbing, heating, electric, separate bids.) metal lath, tile, marble, terrazzo, hollow metal sash, ornamental iron work, bond, bronze work, carey built up roof, cement floors, hollow tile.

Residence Development, Coopertown Road, and Buck Lane, Bryn Mawr, Pa. Work contemplated. Architect, not selected. Owner, Black Farm Co., care of Hirst McFarland, 152 Walnut St., Philadelphia. Consists of 17 acres.

Office Building, Wyndmoor, Pa., Montgomery County, Pa. Architect taking bids due October 14th. Architect, Heacock and Hokanson, 1211 Chestnut St., Phila. Owner, Foote Mineral Co., 1609 Summer St., Phila. Stone, steel, limestone, 2 stories and basement, 39x28 feet, hot water heat, electric, kalamein doors, bond, steel casement windows, ornamental iron work, asbestos shingle roof, cement floors, flagstone, excavation, grading, dampproofing, waterproofing, concrete and cement work, floor hardener, hollow concrete blocks, caulking, gypsum tile works, plastering, linoleum floors, hardware, slate roof, painting and glazing, septic tank.

Fire House, Lewistown, Pa. Architect taking bids due October 16th. Architect, Hodgins & Hill, 130 S. Fifteenth Street, Phila. Owner, Brooklyn Fire Co., Lewistown, Pa.

Sewer and Inlet, Folcroft, Pa. Owner taking bids due October 21st at 8 P. M. Architect, A. Yocum, Borough Engineer, 865 Main Street, Darby, Pa. Owner, Borough of Folcroft, R. C. Williams, Secretary, Folcroft Fire House, Folcroft, Pa. Primos to Crotzer Ave., along Shallcross ave., 250 feet 18 inch terra cotta, storm sewer, 1 corner inlet.

Miscellaneous Supplies, Norristown, Pa. Owners taking bids due Oct. 25th, 10 A. M.

Opened 11 A. M. Architect, Rankin & Kellog, 1805 Walnut Street, Philadelphia. Owner, Montgomery County Controller, Wm. C. Irvin, Court House, Norristown, Pa. a. Wood Furniture. b. Heating equipment. c. Steel filing equipment. d. Law book stacks. e. Law Furniture. f. Law partitions and screens. g. Ornamental lighting fixtures. h. commercial lighting fixtures and fans. k. toilet accessories. l. Miscellaneous metal. m. Carpentry work, etc. n. Marble and cut stone. o. Window shades and blinds and hangings. p. Electric wiring and miscellaneous equipment for addition and alterations to Montgomery County Court House. Certified check. Plans and specifications may be secured from architect.

Pennsylvania Contracts Awarded

Archives Building, Bethlehem, Pa. Contract awarded F. F. Speck Construction Co., 51 West Walnut street, Bethlehem, Pa., \$50,000. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian College, 87 West Church street, Bethlehem, Pa. Fireproof, 2 stories, 80x100 feet, slate roof, reinforced concrete floors, partitions, vapor heat, electric light, metal lath, ornamental iron, cast stone.

Reservoir and Pumping Station, Crow Creek, Abrams, Pa. Contract awarded Fish-Rutherford Co., 4058 Chestnut st., Philadelphia. Architect, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Brick, 1 story, concrete, 16x20 feet, basement, valve pit, 8x15 feet, ex-

cavation, bond, concrete and cement work, steel and iron work, cinder concrete block, asbestos, built-up roof, sheet metal work, carpentry and mill work, painting.

Residence, Ardmore, Pa. Contract awarded Joseph Harris, 114 Audubon avenue, Wayne, Pa. Architect and builder taking sub-bids due as soon as possible. Architect, Carl H. Schaefer, 11 South Sixteenth street, Philadelphia. Owner, Mrs. Catherine Quinn, 27 Wellington road, Ardmore, Pa. Brick and frame, 2½ stories, 24x26 feet, hot water heat, electric work, tile, shingle roof, hardwood floors.

Residence (alts. and add.), Gulph road, Bryn Mawr, Pa. Contract awarded Townsend, Schroeder & Wood, 1700 Sansom street. Architect, John Graham, Jr., 10 South Eighteenth street, Philadelphia. Owner, Alfred Maule, Bryn Mawr, Pa. Demolition, excavation, cement and concrete work, brick work, hollow tile, carpentry and mill work, plastering, iron work, tile.

Residence and Garage, Chapel road and West avenue, Elkins Park, Pa. Contract awarded Feeney & Dallas, Elkins Park, Pa. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Dr. Schwam, care of builder. Stone, 2½ stories and basement, 62x42 feet, hot water heat, electric, metal lath, tile work, slate roof, oak and yellow pine floors.

Service Station, North Glenside, Pa. Contract awarded Clinton R. Spencer, North Glenside, Pa. Architect, Edwyn Rorke, Glenside, Pa. Owner, Al. Robinson, North Glenside, Pa. Brick, 1 story, T shape, 24x60 feet, 24x50 feet, tile roof, cement and maple floors, plate glass, overhead doors, electric light, electric fan unit heat.

Store Building, Glenside, Pa. Contract awarded Sauter & Schwertner, 1505 Race

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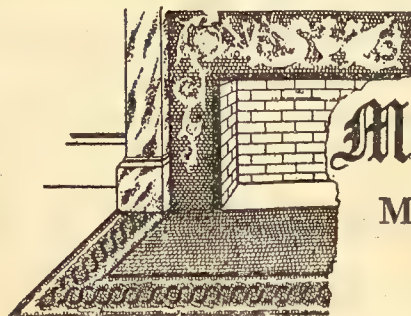
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street. Architect, Edwin G. Rorke, Glenside, Pa. Owners, Rogers Fruit Co., Glenside, Pa. Brick, steel, cast stone, 2 stories and basement.

Mill Building, Wilkes-Barre, Pa. Contract awarded O. J. Behrens, 179 Blackman street, Wilkes-Barre, Pa. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Nelson Brothers, 38 Baltimore street, Wilkes-Barre, Pa. Mill construction, 1 story, 100x80 feet, asphalt roof, pine floors, electric light, steel sash.

Y. M. C. A. Building, 633 Washington street, Reading, Pa. Contract awarded C. H. Schlegel, 528 Washington street, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Y. M. C. A., F. S. Livingwood, President, on premises. Brick, steel, cinder block, 6 stories and basement, 94x132 feet, slag roof, concrete floors, hollow tile, elevators, roof ventilators, cast stone, damp-proofing, architectural terra cotta, kitchen equipment, iron stairs, bond, fire doors, steel sash, tile, marble, metal lath, steam heat, electric light.

Club House (alts. and add.), Reading, Pa. Contract awarded C. H. Schlegel, 528 Washington street, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Berkshire Country Club, care of architect. Steel, stucco, cinder block, 1 story, 2 wings, 30x40 feet, slate roof, asphalt tile floors, vapor vacuum heat, electric light, tile and marble, rolled steel sash.

Church (alts.), Zionsville, Pa. Contract awarded Arthur Hauser, Emaus, Pa. Architects, Jacoby and Everett, Commonwealth Building, Allentown, Pa. Owners, Zionsville Lutheran Church, care of architects. Concrete work, red oak floors, mill work, metal lath, plumbing, heating, electrical work.

Apartment House, Allentown, Pa. Contract awarded E. Perlick, Northampton, Pa. (Note correction.) Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, I. Barlingholtz, care of architect. Brick, 3 stories and basement, 28x70 feet, slag roof, pine or hardwood floors, vapor heat, electric light.

Bulk Plant, Chambersburg, Pa. Contract awarded C. E. Cump, Chambersburg, Pa. Ar-

chitect, private plans. Owners, Standard Oil Company, A. M. Holter, Engineering Department, Public Ledger Building, Philadelphia.

Residence and Garage, Villa Nova, Pa. Contract awarded William Roth, Jr., 6732 Germantown avenue, Philadelphia. Architect, Sherman Coates, 1420 Chestnut street, Philadelphia. Owner, Walter B. Newlin, care of architect. Frame and stone, 2½ stories, 30x58 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work.

Sidewalk, Curbing and Gutters, around Union Avenue School Building, Norristown, Pa. Contract awarded Michael J. Monahan, Norristown, Pa.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Northumberland County, R-161, Sec. 5, Mt. Carmel Borough and Mt. Carmel Township. Bridge over tracks of P. R. R. and Lehigh Valley R. R. and over Shamokin Creek. G. W. Rockwell, Sunbury, Pa., \$209,499.18.

Indiana County, R-63, Sec. 2, A-6732, White, Rayne and Washington Townships. One course reinforced concrete. Gray Brothers, Youngstown, Ohio, \$227,235.39.

Butler County, R-75, S-1, A-6731, Venango, Concord and Washington Townships. One course reinforced concrete. Charles Winters Construction Co., Butler, Pa., \$383,835.65.

Indiana County, R-508, Sec. 2, Greene, East Mahoning and Rayne Townships, Marion Center Borough. One course reinforced concrete. Eastern State Construction Co., Meadville, Pa., \$260,101.62.

McKean County, R-469, S-1, Keating Township, Smethport Borough. One course reinforced concrete. H. E. Bunce, Hornell, N. Y., \$408,028.34.

Washington County, R-247, Union and Carroll Townships. Bridge over Mingo Creek. Martin & Frownfelter, Camp Hill, Pa., \$20,875.96.

Cameron County, R-105, Sec. 5, Gibson and Grove Townships. One course reinforced concrete. A. G. Andrew Engineering Co., Tyrone, Pa., \$86,392.05.

Elk and Clearfield Counties, R-99, Spur, R-411, A-6535, Jay and Huston Townships.

One course reinforced concrete. L. R. Mathieu, Altoona, Pa., \$241,186.82.

Crawford County, R-82, Veernon Township. Bridge over Watson Creek. Reinforced concrete, (2) span. Walter S. Rae, Pittsburgh, Pa., \$39,883.64.

Clearfield County, R-401, Sec. 1, Gulich and Woodward Townships, Moutzdale Borough. One course reinforced concrete. Pratt & Moore, Inc., Hollidaysburg, Pa., \$119,009.80.

Perry County, R-191, Tuscarora Township. Bituminous surface treated macadam surface course. L. M. Hutchinson, Altoona, Pa., \$134,180.32.

Fulton County, R-38, Sec. 3A, Belfast Township. Bridge over Licking Creek. R. R. Meyers, Lewistown, Pa., \$24,182.86.

Allegheny and Westmoreland Counties, R-330, Sec. 1, R-288, Sec. 1, R-181, Sec. A, R-118, Sec. 5, R-288, Sec. 4, Howard, Elizabeth and Rostraver Townships. One course reinforced concrete. J. F. Patterson, trading as Donora Construction Co., Donora, Pa., \$402,694.58.

Wayne County, R-171, Sec. 2, Lake and Cherry Ridge Townships. One course reinforced concrete, grading, drainage. George C. Hess, Drums, Pa., \$337,867.20.

New Jersey Construction News

Garage, Storage Building and Alterations to Firehouse, Atlantic City, N. J. Work contemplated. Owners, City of Atlantic City, care of City Clerk, Atlantic and Tennessee avenues, Atlantic City, N. J. Reinforced concrete, steel, brick, 2 stories, 165x50 feet, Johns Manville asbestos roof, concrete floors, roof ventilators, waterproofing, hot water heat (heating, plumbing and electric separate), oil burners, steel sash.

Sewage Disposal Plant, Burlington, N. J. Work contemplated. Architect, private plans. Owners, Burlington City Council, Albert Zimmerman, Chairman, Burlington, N. J.

Grade Schools (2), vicinity of Twenty-eighth and River avenue, vicinity of Twenty-third and Wayne avenue, Camden, N. J. Work contemplated. Architect, not selected. Owners, Camden Board of Education, William S. Abbott, Chairman of Property Committee, Twenty-sixth and Federal streets, Camden, N. J. Structures to replace old buildings.

Senior High School, Camden, N. J. Work contemplated. Architect, not selected. Owners, Camden Board of Education, William S. Abbott, Chairman of Property Committee, Twenty-sixth and Federal streets, Camden, N. J.

School, vicinity of Broadway and Clinton street, Camden, N. J. Work contemplated. Architect, not selected. Owners, Camden Board of Education, William S. Abbott, Chairman of Property Committee, Twenty-sixth and Federal streets, Camden, N. J. To replace Broadway School.

High School, Gymnasium and Auditorium, Paulsboro, N. J. Plans in progress. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, School Board of Paulsboro, N. J. Brick, stone, steel, 3 stories and basement.

Moose Home, Market street, East of Eighth street, to Federal street, Paulsboro, N. J. Plans in progress. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Loyal Order of the Moose, Paulsboro, N. J. Brick, stone and steel, 3 stories and basement.

Bridge (alts.), over Great Egg Harbor Bay, between Ocean City and Somers Point. Plans in progress. Architects, William H. Collison, Inc., Ocean City, N. J. Owners, Ocean City Commissioners, Ocean City, N. J. Rebuilding and changing ends.

Apartment Building, Northwest Corner

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Ninth and Sycamore streets, Camden, N. J. Preliminary plans in progress. Architect, Louis H. Goettelman, 402 Chestnut street, Brooklawn, N. J. Owner, Harry Frankenstein, care of architect. Concrete, steel, brick, 3 stories and basement, 80x100 feet, contains 36 apartments, 4 stores.

Grade School, Westmont, N. J. Architect ready for bids about October 11th. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Haddon Township School Board, J. R. Y. Blakely, President, Westmont, N. J.

Summer Residence, 7 Atlantic avenue, Beach Haven, N. J. Architect will be ready for bids in one week. Architect, Louis H. Goettelman, 402 Chestnut street, Brooklawn, N. J. Owner, L. S. Stevens, 5224 Delancey street, Philadelphia. 27x30 feet.

Apartment House, Greenwood avenue, Trenton, N. J. Owner taking sub-bids. Architect, Louis Kaplan, 33 West State street, Trenton, N. J. Owner, Milton Mirkin, 704 Greenwood avenue, Trenton, N. J. Brick, steel, limestone, 3 stories, 50x150 feet, slag and slate roof, wood deck, hollow tile, vapor heat, oil burner, metal lath, tile, marble, casement windows.

Nurses' Home (add.), Lakeland, N. J. Low bidders: Watson & Schleinkofer, Ateo, N. J.; George Bachmann, Camden, N. J. Architect, Arnold H. Moses, Camden, N. J. Owners, Camden County Board of Freeholders, Camden, N. J. Brick, steel, 35x124 feet, 76x35 feet, slate roof, hardwood floors, safety treads, metal weather strip, waterproofing, flagstone, bluestone, heating, electric light, fire doors, bond, ornamental iron work, iron stairs, brass pipe, area gratings.

Street Paving, Berlin, N. J. Owners taking bids due October 17th. Architects, Remington, Vosbury, Goff, 509 Cooper street, Camden, N. J. Owners, Borough of Berlin, George R. Duncan, Clerk, Berlin, N. J. 3,617 cubic yards excavation, 14,656 square yards 8-inch reinforced concrete paving, 11,812 lineal feet 9-inch plain curb, 978 lineal feet 9-inch armored radial curb, 48,788 square feet 4-inch sidewalks, 7 reset inlets, 1,187 lineal feet curb removal, 18,448 square feet sidewalk removal, 399 square yards concrete removal, 610 lineal feet reset fence. Bond. Certified check, 10 per cent. of bid. Deposit, \$25; \$10 refunded.

Road Work, Route 6, Section 3, from East Brinkerhoff Ave. to Lester Street, in the Boroughs of Palisades Park and Fort Lee, Bergen County, N. J. Owners taking bids due October 21st at noon. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Earth excavation, rock excavation, borrow, planting of trees and protection of slopes. Certified check 10%. Deposit \$10.

Cottage (alts. and add.), Montoloking, N. J. Plans in progress. Architect, H. L. Duhring, 1309 Locust st., Phila. Owner, Mrs. E. D. Baetzell, on premises. General alterations and additions.

New Jersey Contracts Awarded

Monument and Fire Escapes, Gloucester Park, N. J. Contract awarded Morris C. Pennell, Merchantville, N. J. Architect, Lackey & Hettle, Camden, N. J. Owner, Camden, Park Commissioner, care of J. C. Remington, Camden, N. J. Brick, limestone, bronze tablets, iron stairways.

Power House, New Jersey State Hospital, Hillsdale, N. J. Contract awarded Delaware Form Co., 1001 Chestnut street, Philadelphia. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of

Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, limestone, 1 story, 84x52 feet, slag roof, cement floors, caulking, steel sash, bond, ornamental iron, area gratings.

Factory (add.), Paulsboro, N. J. Architect, private plans. Owners, Cooperman & Karp, Manufacturers for N. Snellenburg & Co., Twelfth and Market streets, Philadelphia. 1 story and basement, 65,000 square feet, cinder block and stucco. Contract awarded Aaron & Kircher, Westville, N. J.

Hotel (add.), Atlantic City, N. J. Contract awarded J. Mathis & Son, Guarantee Trust Building, Atlantic City, N. J. Architect taking sub-bids. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Ambassador Hotel, Brighton avenue and Beach, Atlantic City, N. J.

Hotel (alts. and add.), Connecticut and Oriental avenues, Atlantic City, N. J. Contract awarded Samuel Dolinsky, Commerce Building, Atlantic City, N. J. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, S. Grundweg, care of architect. Steel, iron, 4 stories, maple roof, elevators, iron stairs, steel skylights, partitions, tile, marble, hot water heat.

Store (alts. and add.), 1635 Boardwalk, Atlantic City, N. J. Contract awarded H. Yarmov, 4807 Atlantic avenue, Atlantic City, N. J. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, M. Gettleman, on premises. Stone, brick, steel, 2 stories, 30x160 feet, 20x85 feet, slag roof, vapor heat, electric light, tile, marble, steel skylights, casement windows, bronze work.

Garage, Trenton, N. J. Contract awarded E. V. Rolison, Trenton Trust Building, Trenton, N. J. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owner, Christopher Cartledge, 920 Berkley street, Trenton, N. J. Brick, 1 story, 32x22 feet, slate roof, concrete floors, electric work.

Building (add.), \$3,000. 413 Cooper street, Camden, N. J. Contract awarded Albert

Pepiak, 1011 Atlantic avenue, Camden, N. J. Architect, F. C. Jobson, Collingswood, N. J. Owners, A. M. McNutt and Joseph Beck Tyler, on premises. Brick, third story add., 16x52 feet, slag roof.

Residence, \$3,000. 1836 Miller street, Camden, N. J. Contract awarded E. Christy & Sons, Gloucester Heights, N. J. Architect, private plans. Owner, David Christy, Camden, N. J. Brick, 2 stories, 16x42 feet, slag roof, hot water heat, electric light.

Tank and Engine Room, \$20,000. Woodstown, N. J. Contract awarded W. F. Koelle & Co., 1633 Race street, Philadelphia. Architect, private plans. Owners, Woodstown Ice & Coal Co., Woodstown, N. J. Brick, steel sash, mill work.

Road Work, New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 39, Sec. 3, Chambers Corners to South Pemberton road, Burlington County. Ross & Taylor, Broad Street Bank Building, Trenton, N. J., \$199,759.

Route 37, Sec. 4, across North Branch of Toms River, Ocean County. William Eisenberg & Sons, Land Title Building, Camden, N. J., \$33,791.

Route 39, Secs. 3, 4, 5 and 6, in Burlington County. (5) bridges. Michael Marmella, Rye, N. Y.

Route 29, Secs. 4 and 9, (4) bridges between North Plainfield and Mountainside, Union and Somerset Counties. C. H. Winans, Elizabeth, N. J., \$50,344.60.

Route 47, Sec. 4, Head of River to Tuckahoe, Cape May County. Charles D. Prosser, Pitman, N. J., \$216,818.33.

Miscellaneous Construction News

Library, \$300,000. West Virginia University, Morgantown, W. Va. Owners will be



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FOR HOMES, SCHOOLS, CAMPS AND FACTORIES
CONCRETE FOR PERMANENCE

PHILADELPHIA SEPTIC TANK CO.

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PHILADELPHIA, PA.

ready for bids in 10 days. Address requests for plans to James S. Lakin. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, School Board of Control, James S. Lakin, President, Charlestown, W. Va.

Bank and Office Building, Ninth and Orange streets, Wilmington, Del. Architect taking bids due October 15th. Architect, Oscar Townson, 150 Fifth avenue, New York City. Owners, Fidelity Bank & Trust Company, Wilmington, Del. Brick and steel, marble, 12 stories and basement, 44x91 feet, steam heat, electric light, metal lath, tile and marble, slag roof, concrete floors.

School Building (add.), Richardson Park, New Castle County, Delaware. Low bidder: John McShain, 1610 North street, Philadelphia, \$83,487. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, State Superintendent, County Building, Wilmington, Del. Brick, concrete, 2 stories, 119x61 feet, timber roof construction, steel and iron, painting, carpentry, masonry.

Miscellaneous Contracts Awarded

School, \$162,747. New Castle, Del. Contract awarded Richardson & Luce, 1524 Chestnut street, Philadelphia. Architects, Guilbert & Betelle, Newark, Del. Owners, School Building Commission for the New Castle School District, State House, Dover, Del. Brick, limestone, steel, 2 stories and basement, 245x107 feet (plumbing, heating, electric separate bid), slag and slate roof, wood roof deck, maple and cement floors, safety treads, metal weather strip, caulking, waterproofing, tile and marble work, rolled steel skylights, kalamein doors, bond, iron stairs, mastic tile floors, rubber stone floors, reinforced concrete, soapstone, bluestone, metal lath, dampproofing.

Nurses' Home, Brandywine, Del. Contract awarded Van Sant Brothers, 831 Tatnall street, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Brandywine Sanatorium, Brandywine, Del. Brick, steel, 3 stories, 56x35 feet, asbestos shingle roof, pine and hardwood floors, electric light.

"Facts are stubborn things." Advertise only the truth about your product and watch the result.

Proposal

LIBRARY BUILDING
at
WEST VIRGINIA UNIVERSITY
Morgantown, W. Va.

NOTICE TO CONTRACTORS

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 2.00 P. M., Wednesday, November 27, 1929, for doing all work and furnishing all materials necessary to complete the building described below, according to the plans and specifications of Davis, Dunlap & Barney, Architects, 1805 Walnut Street, Philadelphia, Pa. Separate bids are required for the general construction, for heating and ventilating, for plumbing and for electrical work.

The building occupies an area of 151 feet 6 inches by 118 feet 2 inches, and consists of a Ground Floor, First Floor and Second Floor, and a Fan Room and Warm Air Ducts under the ground floor.

The Ground Floor contains the Administration Offices, the seminars and studios, toilet rooms, storage and bindery, unpacking room, and the janitor's work spaces.

The First Floor contains the General Reading Room, Assignment Reading Room, General Delivery Room and Catalog Work Space.

The Second Floor contains the Periodical Room and unfinished portions for the future Graduate Reading Room, Special Reading Room, seminars and toilet rooms.

The Stack Room extends from the Ground Floor up to the underside of the Second Floor. The elevator hatch extends from the Ground Floor to the Pent House.

The central portion of building is of steel skeleton construction.

Generally, the first floor construction is of reinforced concrete beam and slab construction. Rear portion is of steel beam and reinforced concrete slab construction.

The second floor and main roof construction is of steel beam and girder and reinforced concrete construction. The other portion of roof and floor construction is a composite steel and reinforced concrete beam and girder and reinforced concrete slab construction. A temporary plank and slag roof is to be placed over the main roof slab.

The building also consists of reinforced concrete footings and foundation, brick walls

with cut stone trim, cement floors, terrazzo floors, cork tile and linoleum floors, composition floors, metal stairways, metal sash, interior marble work, interior wood finish, plain and ornamental plastering, waterproofing, painting and decoration, roofing and sheet metal work, hardware and elevator equipment. No book stack equipment.

Heating and Ventilating includes Hot Water Heater, ventilating units, Aerofin units, fans and motors. Heat of steam from Central Plant.

Plumbing includes drainage, hot and cold water supply, gas supply and plumbing fixtures.

Electrical Work, conduit, wiring, switchboards and panel boards, telephone system, fire alarm system, buzzer system and lighting fixtures.

Plans, specifications and blank form for bids will be mailed to GENERAL CONTRACTORS by the State Board of Control when request is accompanied with check in the amount of Fifty Dollars (\$50) which amount will be refunded only on receipt of bona fide bid and the return of the plans and specifications.

Plans, Specifications and blank form for bids will be mailed to Mechanical Contractors, Heating, Plumbing and Electrical Work, when request is accompanied with check in the sum of Twenty-five Dollars (\$25), which amount will be refunded only on receipt of bona fide bid and the return of the plans and specifications.

Certified check in the amount of 1 per cent of the bid made payable to the State Board of Control must accompany the bid, and same will be returned to all unsuccessful bidders immediately after opening.

Surety bond will be required of the successful bidders, according to our law in full amount of the contract price.

STATE BOARD OF CONTROL

By James S. Lakin, President,
Charleston, W. Va.

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for Oct. 1, 1929.

Editor, H. L. Sharpe.

Managing Editor, none.

Business Manager, Louis S. DeLone.

Publishers, Building News Publishing Co., 1530 Chestnut Street, Philadelphia.

Owners, Building News Publishing Co., 1530 Chestnut Street, Philadelphia, Pa., Louis S. DeLone, 1530 Chestnut Street, Philadelphia, Pa.

Known bondholders, mortgages and other security holders holding one per cent. or more of total amounts of bonds, mortgages or other securities, none.

(Signed)

Building News Publishing Co.,

Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 18th day of September, 1929.

H. A. Lang, Notary Public.

(My commission expires March 2, 1933.)

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

MARPLE HILL STONE CO.

Grey and Rustic
Rough - Face - Dimension

MARPLE HILL STONE CO.

Quarry, Lawrence and Darby Road
Marple Hill, Pa.
Phone, Newtown Square 236

Office:
815 Penn St., Bryn Mawr, Pa.
Phone, Bryn Mawr 1072

MARBLE MOSAICS TERRAZZO CERAMICS TILES

that will satisfy the most particular.

ROMAN MOSAIC & TILE CO., INC.

Office, 435 Green St.

Factory, 432 Wallace St.

Bell—Market 3158

PHILADELPHIA, PA.

Keystone—Main 5145

(Continued from page 644)

creased valuation of the land, or as large a return as possible. But that is not all. His tenants cannot get the up-to-date elevator service, office standards and comfort from the building erected ten or twelve years ago, so rapid has been our advance in building conveniences.

Exactly the same holds true of the manufacturer who decides to own a modern plant. He might believe that he could continue to manufacture in his old tumbledown factory, erected before modern ideas of routing or sanitation were known. But if he considers the cost of handling materials, and his engineers make full use of every new tool, new method and new principle; reducing labor to a minimum and applying the latest equipment, the manufacturer will undoubtedly find that he has been paying an immense premium every year to remain in the old plant with the old equipment.

It all figures down to an engineering and mathematical basis. Here lies the big task of tomorrow for all industrial advertisers—to sell the idea of creative spending, and even of creative wasting, to more people.

Many people are controlled by prejudices and fixed ideas more than by what their lead pencils would tell them if they sat down and did some simple figuring. They are obsessed with the waste idea, like the English manufacturer who insisted on wearing out his present machinery before he would consent to buy a new machine which would make *all* of his old machines unnecessary! There are too many who have never clearly understood the relation of their spending to the general state of prosperity and the ability of consumers to buy more of their goods.

We need bold, determined, aggressive spenders; daring but cool; risk-taking, confident, even colossal spenders. Does this sound startling? Don't be afraid. Carnegie was called a colossal spender because of his fast scrapping policy, but Carnegie literally set the modern American industrial pace.

In our keen interest in Ford and the automobile industry we forget that the steel industry in the United States really took the lead and changed the entire program of American industry.

Carnegie was the Ford of yesterday, and with his scrapping policy he laid the foundation on which modern business rests. He introduced a new kind of dynamics into business—speed, punch and

courage to go forward, whatever the cost in waste, if the engineering facts pointed the way. He introduced the line and staff organization and respect for experts and for research.

It is no accident that the present has been called the steel age. Steel not only holds up our great skyscrapers, but the history of steel is the history of industrial America.

Every one of us has set up a howl when our wives finally threw away our old suits, or hats, or shoes. We cling to them because they are comfortable and we are used to them. But one spring house-cleaning day the wife got a determined hard-hearted look on her face and said "Out with them—I don't care what he says!" This is exactly the spirit we need.

Women are far keener on economics than men are. In the matter of clothes they have been creatively spending for centuries, and look how successful they've been with us by doing so!

We need men who will go around a factory or an office with just the same determined look and say "Out with it—I don't care what he says!" We may dislike to see the junk man make much money, but take it from me, for every dollar the junk man makes, we would make a thousand.

Hanging on to old, out-moded goods is a terrific brake on progress. A man once said to me "I have a suspicion that any city would be better off if an earthquake came along every ten years and shook to pieces everybody's factory, office and equipment. It seems as if nothing but an earthquake could ever make some people wake up to their need for up-to-date equipment. Did you ever notice how vastly improved and more efficient and prosperous a city is that has had an earthquake or a flood or a fire?

"There's no mystery about it—everybody buys new equipment, business is brisk, and production is increased because

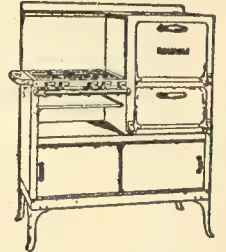
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interested in framing door and window openings **WITHOUT STANDING TRIM** are invited to write or telephone Kalman Steel Company, Architectural Materials Department, 1713 Sansom street, for information concerning Kalmantrim, Kalman Steel Buck and Kalman Steel Jamb.

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PHILADELPHIA

Keystone, Race 3153

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**Bell-Baring 2261
Keystone-West 2162**

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TRIDENT
WATER METERS

For New and Old Properties

**PHILADELPHIA METER CO.
942 Real Estate Trust Bldg., Philadelphia**

the tools are better. And why shouldn't everything be much better? It is new and up-to-date."

Up in Vermont there was an old farmer who kept a barrel of apples for the family during the winter, and he instructed them to first pick out the specked ones when they wanted apples. The result was that all winter long the family lived on specked apples, because by the time the first selection of specked apples was eaten, the others had become specked. They were practicing the old pinching economy principle instead of creative waste.

If you think that is an unimportant illustration, think it over. It exemplifies the old idea in the change that is going on today, and points the way to the new psychology that is being developed.

Literally billions of dollars of possible sales lie frozen because of the old shortsighted economy ideas; the eating-specked-apples psychology. These people who are living in yesterday's house without modern features; working in yesterday's factories and offices, without up-to-date equipment; and operating yesterday's tools, methods and principles, *are blocking the way to far greater things for America*, and we should push them out of the way if they can't be argued out of the way.

If people were not as desirous of getting into better houses and offices we would slow down the remarkable pace of construction activity which has been going on since 1922 at an annual value of about seven billion dollars. We have it on the authority of the New Hoover Committee on Economic Changes that this great seven billion dollar construction program has acted as a stabilizer and a tonic to general business.

It is one of the most astounding demonstrations of creative spending that we have today, because it is being carried on in spite of the fact that building costs have been higher than the general price level compared with pre-war conditions. We are not waiting for the day when costs will be lower—we are building bigger and better offices, public buildings, better residences and more modern apartment houses. We are not content with the standards of yesterday.

The same progressive pace has not been fully maintained in the field of industrial equipment. When high speed steel was first introduced, many manufacturers were *forced* to re-equip their plants with machines that would drive high speed steel. But why wait until they are forced? That is precisely what my friend said about earthquakes.

Why not go at the *job creatively*? Not all the builders are taking the fullest advantage of the rapid advances in new materials and metals. Astounding new things are being developed, but much of the new that we already have has not been widely used. Our equipment should be made with the very latest materials for greater efficiency.

Industrial advertising interests should assume the greater part of the burden of teaching courageous spending. You must do the educating. It is a big task to break down habit and general outlook on life, which is the real problem that stands in the way, but it can be done.

It is often easier to sell a man a yacht which will prove a big expense to him, than it is to sell him a profit-making idea of value to his business. We must never let up in our fight, because our industries will suffer by comparison if we do. We

cannot lag behind in this fast modern pace.

Contrast this with an up-to-date purchasing policy, which is far keener to buy an article of merit than you could possibly be to sell it. Some time ago a modern concern with a research laboratory decided that the use of a certain kind of fabric much stronger than that being used would improve the goods. But no mill would sell it to them. "It can't be made," they said. Here was a customer eager to spend creatively, but the sellers were years behind in research and had never dreamed of offering the kind of goods they wanted.

But the buyer was ready for them. "We will send our experts into your factory and teach you how to make it," he said. Even then the mills balked, and now the buyer has organized his own mill. Sellers cannot stop the virile up-to-date buyer from creative spending when they are too backward to beat him to it by offering him what he wants, and when he wants it.

The system of producing advertising appropriations is wrong, as practiced by the average firm. The task that is desirable should first be set, and then figure the cost of accomplishing it instead of arbitrarily fixing a percentage or setting a figure than can be "afforded."

Listerine, one of the most spectacular sellers among advertised goods, for three or four years spent on advertising *more than its profits*—but it was remarkably creative and profitable spending, as you can see by looking at their figures today.

Opportunities for profitable business will escape those who fail to take full advantage of the possibilities that are offered. Success will never come to the man who refuses to keep in time with this modern tempo. Nothing is so detrimental to a growing business as the failure to spend an amount equal to the tasks set for the spender.

Failure to do as did the owners of Listerine, Wrigley's Spearmint, Campbell's Soup, and the host of other well known successful products is usually not because there is any lack of men, but because there is a distinct lack of market analysis and business courage. The weaker, less able business men never rise to a mental level high enough to understand courageous spending. They will spend only as they must and pinch their dollars too lovingly, with a hoarding impulse. The advertising man has had more object lessons in this than any other man in business.

Under the changed conditions of today the only hope of the smaller concern for profit is to abandon any idea of mass production and selling on a small margin of profit and substitute for such a policy the sale of specialized advertised goods to a specialized group of customers and then back up every sale with a highly de-



AN EXAMPLE OF ART CAEN STONE, WINDOW OF M. CAPLAN, 331 SOUTH ST.

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CAEN STONE, MARBLE
INDIANA LIME STONE
BRIAR HILL STONE
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FLOORS AND WALLS
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Products
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veloped service. In the past we concentrated every sale on the tangible facts represented by the product offered for sale. Today, all emphasis is being placed on the intangible represented by Service. To sell what the article does, not what it is, constitutes the modern conception of selling.

If an industry actually knew of the opportunities for a greater use of their product, of the waste that occurs in failing to develop new uses and new markets and the loss in profits that could readily be realized it would immediately insist upon organized co-operative research and supply the funds to finance the operation. Courageous spending, it is true, but why should so much courage be needed when the results are so obviously profitable?

In the meantime the trade publications and business papers should see to it that these facts are assembled and properly presented. To do so would be in line with a much needed program of education.

Only the man who is sure of his results is courageous in his spending. He has no doubts as to the outcome. The steel industry has produced some such men, though it still is in need of developing a better public consciousness. "As hard as steel" is quite generally recognized, but that does not improve the standing of the material in the eyes of the public. If, instead, we could get people to say "as fine as steel," we would be accomplishing something. But to do that would require a real advertising appropriation.

George M. Verity is a good example of the courageous spender. "Go ahead and try" was his slogan in August, 1914, when Armco Iron was first produced. His policy was to "go ahead" and find out what the buyer wants, "go ahead" and find out how best to produce it. Go ahead and do. Go ahead and tell. He co-ordinated his selling plans with his production—he did not hesitate to discard the supplanted machine. He has kept as a permanent asset the first "go ahead" order.

By advertising to the employee, the stockholder, and the public, as well as to the ultimate consumer, the American Rolling Mills Company has developed a consumer acceptance for a raw material. They have not hesitated to continue advertising even in a notorious "sellers' market" because they wished to retain the good will of their customers. They have engaged in collateral advertising to promote the sales of the fabricator of their material. Such advertising has lifted Armco Iron out of the rut of raw products, and placed it in the forefront of consumer thought. It has been expensive, but it has more than paid dividends. That is what I call courageous spending.

In the whole field of advertising media there are no more important publications

to be considered or more thoroughly deserving a larger part of the appropriation than the trade and industrial publications. They form the very basis for the essential educational effort so necessary if the industry itself is to be advanced. They blaze the trail for creative spending because they speak for the industry and thereby assert its leadership. The public are recognizing more than ever before trade publication advertising as being the real dependable source of information.

There is room for improvement in the character of industrial advertising but on this point the advertiser himself must be educated. He must be brought up and away from the old style of buying space and filling it with a card or the mere announcement of the company name. Space of suitable size to perform the task should be purchased and then filled with real constructive advertising of the modern character. Always its arrangement and preparation should be considered as an investment from which tangible results are to be expected. It should never be classified as an expense or as an offering of charity. Putting up the right amount of money to cover the field effectively calls for courageous spending, but if the advice and service offered by the trade publications are followed, the returns that are possible will far outshadow the original amounts appropriated. Courageous, creative advertising is the real secret behind successful selling and profitable operation. Without its influence it is impossible to compete favorably with those who recognize the value of public acceptance and goodwill and are alert to cultivate these advantages by sound advertising.

It is not alone with consumer advertising that we must contend. That has been developed to a high point. We are sadly in need of giving more attention to the promotion of consumer acceptance of the basic raw materials. Your work is largely before you, but it is uncharted. The courage of the pioneers has shown the way and proved the principle. Let us continue in order that American industry may be lifted to even higher planes of usefulness.

We are doing a greater and better job in advertising than we ever dreamed of doing in the old days. It is costing more money but it is breaking down resistance, promoting bigger things because it is genuinely creative spending.

The technical and industrial field is rapidly coming into the bigger sphere of usefulness, and he is a bold man who can predict where this era will end. A single advertiser today probably spends as much as the entire industry did in the old days when industrial advertising was looked upon solely as a handout, or as mere good will or institutional advertising.

I have an idea that ten years from now, perhaps less, we will look back even on

today as mere pioneering in the bigger things to come in creative spending. But I am also sure that your organization will continue to be, as in the past, at the very tip of the forefront of the advance.

Diverse mortgage laws that delay the rapid marketing of mortgages in interstate transactions, cost large investors millions of dollars a year, according to General F. M. Bass, of Nashville, Tenn., Counsel for the Mortgage Bankers' Association of America, who will talk on the advantages of a uniform law before the coming convention of the Association to be held in New Orleans, October 29 to 31.

With mortgage laws different in every state in the Union, from the actual wording of the documents to the methods of foreclosure, organizations such as large insurance companies that buy mortgages to the tune of a million dollars a day, must maintain legal staffs to examine the papers in each transaction and see that they check with the laws in the state from which they emanate, points out General Bass.

With probably 250 insurance companies buying mortgages in block lots in forty-eight states every day in the year, not counting other large investors that purchase mortgage paper daily, the work of complying with the provisions of 48 state laws has assumed tremendous proportions, says the Association attorney. Insurance companies alone now hold over six billions of dollars in mortgages.

In other words, a mortgage in Arizona is made and handled under entirely different circumstances than a mortgage in New York, and the two when brought together would hardly recognize themselves as cousins.

"The work done by large mortgage buyers in preparing, copying, examining, and transferring alone is figured at an estimated \$5,000,000 a year which could be saved to purchasers if a uniform law existed, and if shorter and less cumbersome forms were adopted in the various states," says General Bass.

"In the matter of foreclosure clauses alone, the state laws provide for redemptions in case of default at from a few days to several years.

"These items may seem small in the case of one mortgage, but multiplied hundreds of thousands of times, are running into the salaries of attorneys, accountants, and clerks, that might be saved to a large extent through greater uniformity.

"The present situation stems the easy flow of money between states which is necessary if mortgages are to compete with other readily negotiable securities. We know the present variations in the mortgage laws are costing large investors millions of dollars a year; but we have

no record of what this situation is costing the mortgage banker in business he does not get.

"Due to their great safety and comparatively high yield, mortgages always have occupied a place of great importance in the investment field as borne out by the fact that the insurance companies alone have forty-two per cent of their total investments in this form of security. However, investors, large and small, would hold the mortgage in even greater esteem if they could buy it in a more standard form, and thus be able to eliminate the costly process of checking in seventy-seven different directions."

General Bass points out that the proposed uniform mortgage law is not the first uniform law brought about by business men. The Negotiable Instruments Law and the Uniform Sales Law have cut away red tape and duplication for bankers and business men and have saved them millions of dollars a year.

As a result of the two uniform laws referred to above, business men can do business with each other with ease, from state to state; and it is possible, for instance, for a manufacturer of automobiles to sell his cars in Omaha, Nebr., on the same basis as he sells them in Peoria, Illinois.

The bankers' convention will discuss a uniform mortgage law which has already been drafted by the American Bar Association and will consider whether this or any other uniform draft is feasible for adoption by the various states.

The standard clause of the American Arbitration Association has been adopted for the first time by a major Building Exchange or Congress in the recently announced action of the Los Angeles Building Exchange. The clause makes mandatory the settlement of all disputes between members or between members and clients by submission to expert business judgment rather than recourse to litigation.

A warning, "Safeguarding Business Contracts," issued by J. Roydon Estey, Master of the Arbitration Tribunal of the Builders' Congress of Los Angeles, which was praised by Lucius R. Eastman, president of the American Arbitration Association, at 521 Fifth Avenue, New York City, called specific attention to the clause.

"Having proposed or suggested all the safeguards possible to prevent disagreement in making contracts," the warning read, "the Builders' Exchange offers the last and final safeguard to prevent, and a solution to solve the problem where disagreement has crept in despite careful preventatives. Instead of rushing to courts of law with their long, expensive and good-will destroying results, we advise the use of our Arbitration Tribunal,

established for this purpose. The following resume of Arbitration and how to use it should be carefully studied and then put into practice.

"Provide for the prompt, economical and binding settlement of disputes arising out of the performance of contracts or business agreements by inserting in such instruments the following clause:

'Any controversy or claim arising out of or relating to this contract, or for the breach thereof, shall be settled by arbitration in accordance with the laws of the State of California, under the Rules of the American Arbitration Association, and judgment may be entered on the award in any court having jurisdiction.'

"An arbitration clause provides for the arbitration of a future dispute (labor not included), and is intended to assure the parties against litigation or delayed settlement when a dispute subsequently arises. An arbitration clause is valid, irrevocable and enforceable in the State of California. By 'enforceable' is meant that the Superior Courts of this State will require the arbitration to proceed and will stay any suit or proceeding brought in violation of the agreement. By 'irrevocable' is meant that the arbitration agreement cannot be revoked at the will of one party, but only upon such grounds as exist at law or in equity for the revocation of any contract.

"The presence of an arbitration clause in a contract frequently prevents disputes from arising. Experience has proved that when parties know that the matter in issue is to be judged by an unbiased expert in the trade in which the dispute arises, and without delay, such knowledge tends to reduce the number of trivial or ill founded claims, which might have a chance with a jury or by reason of a resort to legal technicalities or claims made to delay the payment of the obligation. If a contract or agreement does not contain an arbitration clause, one of the parties to a subsequent dispute cannot compel the other to arbitrate the issue if he does not wish to.

"Arbitrations are conducted in tribunals (informal courts). The proceedings are called hearings and the judgment or findings of the arbitrator an award.

"The American Arbitration Association is the recognized authority in such matters, and its Rules of Procedure are generally acceptable to all parties.

"The award of an arbitrator in this State has all the force and effect of a superior court judgment; and can be recorded and dealt with in like manner.

"The total cost of an arbitration is usually but a small part of the expense involved in the trial of a similar action in court, while the time involved is ordinarily but a matter of days.

"The Builders' Exchange of Los Angeles, located in the Chamber of Com-

merce Building, maintains an arbitration Tribunal that is open to the public without respect to trade or affiliation. Here advice and counsel on arbitration matters are given without charge. The Tribunal is presided over by J. Roydon Estey, a member of the National Panel of Arbitrators of the American Arbitration Association, and one who is well equipped by experience and knowledge to direct the work of this important program."

Although the Los Angeles Exchange is the first to adopt the standard clause of the American Arbitration Association, it is not the first to establish equitable and irrevocable arbitration rules. Among those Congresses and Exchanges which have established rules peculiar to their respective needs in conjunction with the Association are the New York, Philadelphia, and Indianapolis Building Congresses. The experience of each, as set forth in their periodical reports, indicate a material saving in time required for a final determination of issues involved; a speedier freeing of frozen assets in construction controversies; an appreciable saving in moneys heretofore spent in litigation; a greater respect for the ethics of the industry on the part of the public, and an increased friendliness and mutual confidence among members.

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

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AIR COMPRESSORS FOR HIRE
Philadelphia Compressor Rental Co., Inc.,
26th and Hunting Park Ave., Phila.
Plumbers Roadway Breaking Co.,
S. E. Cor. Dover and Somerset Sts., Phila.

AIR WASHERS
Strandwitz & Scott, Inc.,
537-549 S. 2nd St., Camden, N. J.

AREA GRATINGS
Kerlow Steel Flooring Co. . . 371 Drexel Bldg., Phila.
Petit, Frank, Orna. Iron Works,
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DeGiuseppe Art Marble Co. . . 818 N. 48th St., Phila.
Pigeon, Ernest A. 4231 Filbert St., Phila.

ARTESIAN WELLS
Ridpath & Potter Co.,
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Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

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Warren-Ehret Co. Luzerne and "E" Sts., Phila.

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Weil, J. H., Co. 1315 Cherry St., Phila.

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Livezey, John R.,
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Ketcham, O. W. 121 N. 18th St., Phila.

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Mitchell Bros. 2125 Race St., Phila.
John Schnabel, Inc.,
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Kensington and Lehigh Aves., Phila.

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Foundation & Construction Co. . 1320 Race St., Phila.

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New Jersey Cast Stone Co. . . . Vineland, N. J.

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Massiah, Frederick. Juniper and Cypress Sts., Phila.

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Pearce Fireproof Co. 1911 N. 2nd St., Phila.

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CURBING
Graham, Frank C. 314 S. Camac St., Phila.

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DAMP-PROOFING
Anti-Hydro Waterproofing Co.,
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Barnett Bingswanger, Jr. . . . 829 N. 3rd St., Phila.
Hydroseal Waterproofing Co. . . 829 N. 3rd St., Phila.

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Selby, Battersby & Co. 810 Noble St., Phila.

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Pennsylvania Tile & Mosaic Co. . 1637 Wood St., Phila.
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Pigeon, Ernest A. 4231 Filbert St., Phila.

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Franklin Tile & Mosaic Co. . 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co. . . 433 Spruce St., Phila.
Pennsylvania Tile & Mosaic Co. . 1637 Wood St., Phila.
Roman Mosaic & Tile Co. . . 435 Green St., Phila.

TRANSITS
Robbins, Chas. H., Co. . . . Ranstead & Mole Sts., Phila.
Weber, F., Co. 125 S. 12th St., Phila.
Weil, J. H., Co. 1315 Cherry St., Phila.

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 42
October 16, 1929

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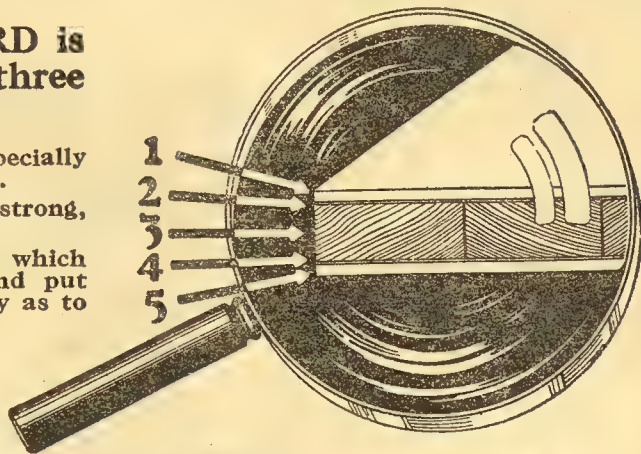
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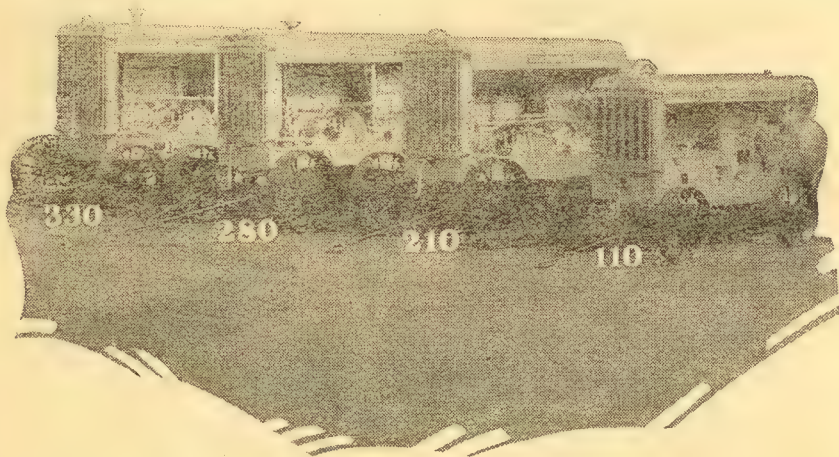
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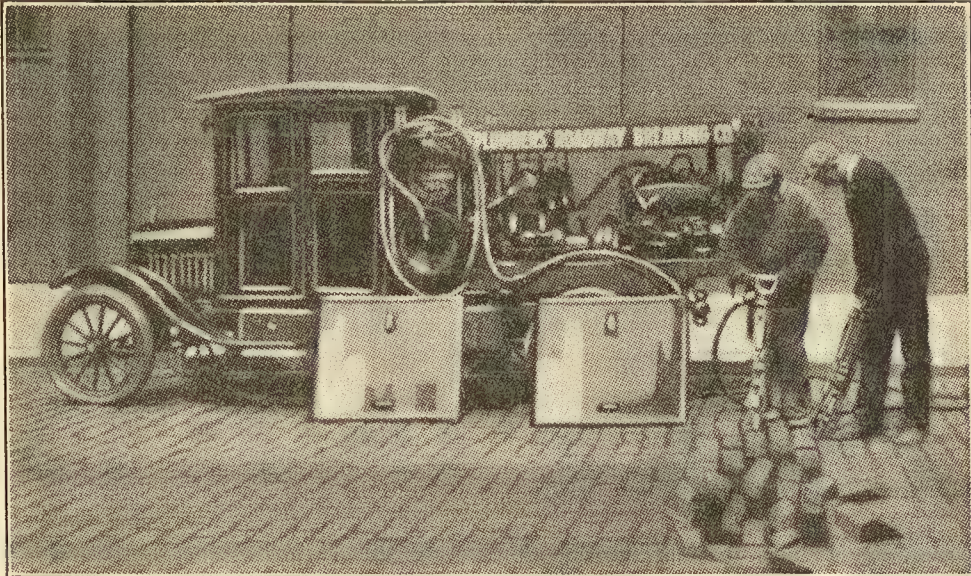
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Engineering and the Building Trades

PHILADELPHIA

Number 42

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Y. M. C. A. Building, Cherry street, between Broad and Fifteenth street, adjacent to Navy Y. M. C. A. Work contemplated. Architect, Louis E. Jallarde, 16 East Forty-second street, New York City. Owner, Young Men's Christian Association, E. H. Bonsalt, 1425 Arch street, Philadelphia. Brick, steel, 27 stories and basement, 110x85 feet.

Y. M. C. A. Buildings (alts. and add.), \$13,000,000. Fifty-second and Sansom streets, Germantown and Lehigh avenues, also 1724 Christian street, Philadelphia. Work contemplated. Architect, Louis E. Jallarde, 16 East Forty-second street, New York City. Owners, Young Men's Christian Association, Walter M. Wood, Secretary, 1425 Arch street, Philadelphia.

Office Building, 1421 Arch street, Philadelphia. Work contemplated. Architect, not selected. Owner, care of Thomas P. Egan, Packard Building, Philadelphia. 26x97 feet.

Residences (22), Cottage and Aldine streets, Philadelphia. Work contemplated in spring, 1930. Architect, private plans. Owner, August G. Betzer, 5425 Horrocks street, Philadelphia. Brick, 2 stories.

Maternity Hospital, Southeast Corner Fifteenth and Mifflin streets, Philadelphia. Architect selected. Plans in progress. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Agnes' Hospital, Sister Superior Mary Illuminata, Superintendent, Broad and Mifflin streets, Philadelphia. Stone and steel, 3 stories.

Parish House, Thirty-fifth and Baring streets, Philadelphia. Preliminary plans in

progress. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, North Minster Presbyterian Church, Rev. Joseph B. C. Mackie, 3504 Baring street, Philadelphia. Stone and brick, 2 stories and basement. To be used for church school, social service and recreational purposes.

Theatre, 8 Stores, 15 Offices, Restaurant and Dance Hall, Allegheny avenue, East of Kensington avenue, Philadelphia. Plans in progress. Architects will be ready for bids in one month. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owner, Samuel Shapiro, 1218 Chestnut street, Philadelphia. Brick, steel and concrete, 1 story and balcony, 255x155 feet, concrete floors, demolition.

Fraternity House, Northeast Corner Thirtieth and Locust streets, Philadelphia. Plans in progress. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owners, Zeta Beta Tau Fraternity, I. Emanuel Sander, 1420 Walnut street, Philadelphia. Brick, 3 stories.

Residence, Chestnut Hill, Pa. Architects taking bids due October 23, 4 P. M. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, H. H. Houston Estate, William Clarke Mason (tenant).

Hotel, Ninth and Locust streets, Philadelphia. Owner taking sub-bids due as soon as possible. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owner, Joseph Sidewater, 253 South Ninth street, Philadelphia. Brick, steel, concrete, limestone trim, 19 feet 6 inches x 104 feet, 8 stories, basement, slag roof, steam heat, hardwood

floors, oil burner, electric work, tile. Bids on demolition will be taken in about 10 days.

Repairs, Receiver of Taxes Office, City Hall Annex, Philadelphia. Architect taking bids due October 23rd. Bids opened 12th Floor, City Hall Annex, Philadelphia. Architect, William S. Covell, City Hall Annex, Philadelphia. Owners, City of Philadelphia. Inquire Room 117. Deposit, \$10. Alterations and additions, new plumbing.

Hospital, 4940 Frankford avenue, Philadelphia. Ready for bids in one month. Architects, Stearns & Woodnut, Stephen Girard Building, Philadelphia. Owners, Frankford Hospital, on premises. Stone, brick, steel, concrete.

Church Alterations and New Sunday School, Elmwood avenue, near Seventy-second street, Philadelphia. Architect taking bids due October 30th at noon. Architect, Adiel Martin Stern, 413 North Thirty-eighth street, Philadelphia. Owners, Karmel Reformed Church, Rev. W. G. Weiss, 2434 South Seventy-second street, Philadelphia.

Residence and Garage, Allen's Lane, between Greene and Wissahickon avenue, Philadelphia. Architect taking bids due October 21st. Architect, Edwin Rorke, North Glenside, Pa. Owner, George F. Steumfig, 5400 Wayne avenue, Philadelphia. Stone, 2½ stories and basement.

Convention Hall, Thirty-fourth and Vintage avenue, Philadelphia. Owners taking bids due November 4, 11 A. M. Architect, P. H. Johnson, 1034 Widener Building, Philadelphia. Owners, City of Philadelphia, care of Harry A. Mackey, City Hall. Deposit, \$150; refund, \$75. Certified checks.

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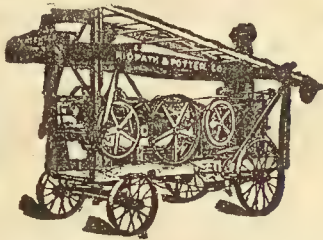
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Apartment Building, 5937 North Broad street, Philadelphia. Architect taking bids due October 18th. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Sanford Corporation, care of architect. Brick, steel, reinforced concrete, 6 stories and basement, 80x235 feet, vapor heat, oil burners, electric light, metal lath, tile, marble, terrazzo, kalamein doors, slag roof, slate roof, oak, cement floors, elevators, plumbing, electric, refrigeration, kitchen equipment, laundry equipment.

Tubercular Hospital and Dining Room Building, Iron Fence Enclosure, Holmesburg, Pa. Owners taking bids due October 25th, noon. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Board of Prison Inspectors, Philadelphia County Prison, William H. Heston, Superintendent, Tenth and Reed streets, Philadelphia. Reinforced concrete, Holmesburg granite, steel, 1 story and basement, 87x55 feet, wing 26x44 feet, 1 story and basement, dining room building, 91x48 feet x irregular, metal lath, marble, rolled steel sash, rolled steel skylights, bond, ornamental iron work, composition and tin roof, cement floors, caulking, brick work, fireproofing, limestone, steel windows, rubber tile floors, kitchen equipment, screens, hardware. Deposit, \$25; \$20 refunded. Certified check. Penal bond. Plumbing, heating and electric separate.

Contract No. 230, Broad Street Subway, Philadelphia. Station control equipment for South Broad Street Subway, Philadelphia. Owners taking bids due October 25th, noon. Architect, private plans. Owners, Department of City Transit, City of Philadelphia, City Hall Annex, Philadelphia. Miscellaneous iron work, bronze work, mill work, glazing, brick work, plastering, painting, sheet metal work, fire doors, hardware.

Alterations to Fire Station, Fourth and Snyder avenue, Philadelphia. Owners taking revised bids due October 22, noon. Architect, William S. Covell, City Architect, City Hall Annex, Philadelphia. Owners, Bureau of Fire, Department of Public Safety, City of Philadelphia, Room 215, City Hall. (Plumbing, heating and electric separate bid.) Demolitions, excavations, concrete and cement work, stone work, brick work, structural steel, iron work, skylights, metal lath, plastering, marble and tile work, composition floors, metal lockers, carpentry and mill work, metal weather strip, screens, painting and glazing, hardware, Barrett specification roof.

Enclosure for New Porch, Rittenhouse street and Pulaski avenue, Germantown. Owners taking bids due October 23rd, 7 P. M.

Architect, Stewart A. Jellett, 1200 Locust st., Phila. Owners, Managers for the Relief and Employment of the Poor of Germantown, Philadelphia. Excavation, stone masonry, brick work, iron work, reinforced concrete work, sheet metal work, carpentry and mill work, painting and glazing, hardware, plastering, slag roof, terrazzo, concrete roof slab, weather stripping, fly screens, wall finish, electric work, steel sash, plumbing. Certified check, 5 per cent. of the bid. Bond. Plans may be obtained from engineer. Deposit, \$10.

Residences (31), \$125,000. South side Unruh street, West of Sackett street, Philadelphia. Permit issued. Architect, private plans. Owner, William B. Davenport, Southwest Corner Unruh and Sackett streets, Philadelphia. Brick, 2 stories, 16x29 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Gas Station, \$5,000. 3950 North Broad street, Philadelphia. Permit issued. Architect, private plans. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Brick, 1 story, 18x39 feet.

Residences (6), \$52,000. South side Godfrey avenue, West of Marshall street, Philadelphia. Permit issued. Architect, private plans. Owners, W. Fischer's Sons, Inc., Oak Lane Trust Building, Philadelphia. Brick and stone, 2 stories, 21x31 feet, 12x24 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Manufacturing Building (add.), \$8,000. 1240 North Hope street, Philadelphia. Permit issued. Architect, private plans. Owners, E. J. Spangler Co., 1227 Howard street, Philadelphia. Brick, 3 stories add., 18x50 feet.

College (alts.), \$8,000. Southeast Corner Woodland avenue and Thirty-sixth street, Philadelphia. Permit issued. Architect, private plans. Owners, University of Pennsylvania, 209 South Thirty-sixth street, Philadelphia. General alterations.

Shop (add.), \$3,500. 2615 South street, Philadelphia. Permit issued. Architect, private plans. Owners, Modern Plumbing & Heating Co., 3621 Market street, Philadelphia. Brick, 2 stories add., 26 feet 4 inches x 20 feet.

Bank Building, Broad and Columbia avenue, Philadelphia. Low bidder: John N. Gill Construction Co., 1500 Chestnut street, Philadelphia. Architect, Paul Cret, Otis Building, Philadelphia. Owners, Integrity Trust Co., Walter Hart, Sixteenth and Walnut streets, Philadelphia. Brick, limestone, reinforced concrete, 10 stories and basement, 54x118 feet, steam heat, electric light, metal lath, marble, hollow metal sash, bond, iron stairs, orna-

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mental iron work, bronze work, area gratings, cinder concrete block, Barrett specification roof, concrete roof deck, cement floors, elevators, caulking, waterproofing, demolition, excavation, imitation travertine, metal doors, metal toilet partitions, plumbing.

Contract No. 224. Underground Cable System, Broad Street Subway, Philadelphia. Low bidder: W. V. Pangborne Company, 1927 West Montgomery avenue, Philadelphia. Architect, private plans. Owners, Department of City Transit, City Hall Annex, Philadelphia.

Bridges, etc., Philadelphia, Pa. Low bidders. Architect, private plans. Owners, Department of Public Works, Bureau of Engineering and Surveys, Twelfth Floor, City Hall Annex, Philadelphia. Schedule A—Seeds & Durham, 25 Maplewood avenue, Philadelphia, \$1,828.70. Bridge on line of Henry avenue, over Wissahickon Creek. Schedule B—Widening Bridge at Wyoming avenue and Roosevelt Boulevard, over North Penn Branch, Hoe Contracting Co., Allentown, Pa., \$92,410. Schedule C—Turn Boring, Penrose avenue, Schuylkill River, Pennsylvania Terminal improvement. Sprague & Henwood, Inc., care of owner, \$21,321. Contract No. 6—Foundations for Arch and Thirtieth Streets Viaduct, Vincent Jaffola, Pennsylvania Building, Philadelphia, \$314,040. Contract No. 4—Bulkhead wall and sewer, Spring Garden southward, Fred Snare Corporation, 1524 Chestnut street, Philadelphia, \$1,081,170. Fifteenth Street Lateral, etc., Leva Brothers, 104 West Gale street, Philadelphia, \$2,827.50. Breyer road, inlets, Leva Brothers, 104 West Gale street, Philadelphia, \$2,651. Kemble Avenue Lateral, Leva Brothers, 104 West Gale street, Philadelphia, \$2,290.50. Improvements of sidewalks, Frankford avenue, from Bride street to Cheltenham avenue, Philadelphia, Ernesto Ventresco, 6016 Ross street, Philadelphia, \$7,803.50. Schedule G—Cottman street, from Wissinoming to East of Eugene, Yetman & Garafola, Real Estate Trust Building, Philadelphia, \$40,695. Van Dyke street, from Paul to Little Tacony Creek, McCool Construction Co., 5033 Duffield street, Philadelphia, \$4,127.50. Dark Run Lane, Vincent Jaffola, Pennsylvania Building, \$2,300.

Miscellaneous Road Work, Philadelphia. Low bidders. Moyamensing avenue, from Mifflin to Morris street, Philadelphia, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$23,395. Front street, Arch to Cherry street, etc., Union Paving Co., 123 South Twenty-first street, Philadelphia, \$21,305. Pine (track area), Twenty-second to Twenty-third street, Philadelphia, United Paving Co., Widener Building, Philadelphia, \$1,835.80.

Apartment House, \$100,000, 4617 Pulaski Avenue, Philadelphia. Owner will soon take sub-bids. Architect, Paul L. Boyd, 6943

Limekiln Pike, Phila., Pa. Owner, John F. Conlin, 158 N. Manheim St., Phila. Brick and steel, 60x107 feet, concrete, limestone trim, 3 stories, sheet metal work, tile work, metal lath, linoleum floors, hot water heat, steel sash, incinerator, hardwood floors, slag roof.

Apartment House, Chew Street, near Cheltenham Ave., Phila. Work contemplated. Architect, Paul L. Boyd, 6943 Limekiln Pike, Phila., Pa. Owner, John F. Conlin, 158 Manheim Street, Philadelphia. Brick and steel, 3 stories, 60x107 feet, reinforced concrete, limestone trim, slag wood joist floors, incinerators, electric refrigeration, linoleum floors, slag roof, steel sash, hardwood floors, tile, sheet metal work, hot water heat, tile.

Apartment Houses (9), \$100,000 each. Location withheld. Work contemplated. Architect, P. L. Boyd, 6943 Limekiln Pike, Phila. Owner, John F. Conlin, 158 Manheim Street, Philadelphia. Brick, concrete and steel, 3 stories, 60x108 feet, reinforced concrete, limestone trim, steel sash, sheet metal work, electric refrigeration, tile work, hot water heat, fire towers, slag roof, hardwood floors, incinerator.

Apartment Building, Torresdale Avenue, south of Friendship St., Philadelphia. Plans completed. Architect taking bids. Architect, J. Ethan Fieldstein, Otis Building, Phila. Owner, Leon Freeman, Drexel Park, Pa. Brick, caststone, cinder block, 3 stories, 23x90 feet, hot water heat, metal lath, tile, slag roof, hardwood floors.

Apartment House, 139 Queen Lane, Philadelphia, Pa. Owner taking sub-bids. Architect, Paul L. Boyd, 6943 Limekiln Pike, Philadelphia, Pa. Owner, John F. Conlin, 158 Manheim Street, Philadelphia. Brick and steel, concrete, 3 stories, 60x107 feet, limestone trim, incinerator, sheet metal work, hot water heat, electric, steel sash, electric refrigeration, slag roof, hardwood floors, metal lath, tile, linoleum floors.

Manufacturing Building, "D" and Erie Ave., Philadelphia. Architect selected. Plans in progress. Architect, Clarence Wunder, 1520 Locust street, Philadelphia. Owner, Chas. J. Webb and Co., 116 Chestnut Street, Philadelphia. Brick, reinforced concrete, 1 story, steel, number of stories undecided.

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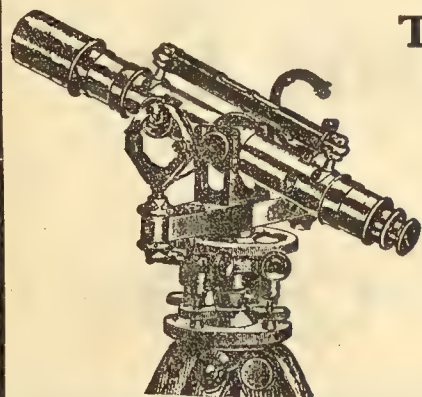
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Freight House and Loading Station, Front and Willow streets, Philadelphia. Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia. Architect, Clark Dillenback, Engineer, Reading Terminal, Philadelphia. Owners, Reading Railroad Company, Twelfth and Market streets, Philadelphia. Brick, steel, 1 story, 174x40 feet, 67x40 feet, slag roof, cement floors, rolled steel sash, bond, ornamenta liron work, demolition, excavation, rolling steel shutters, fire doors, sheet metal work, mastic floors, yellow pine floors, wood piles, painting, glazing, plumbing, hot water heat, electric work.

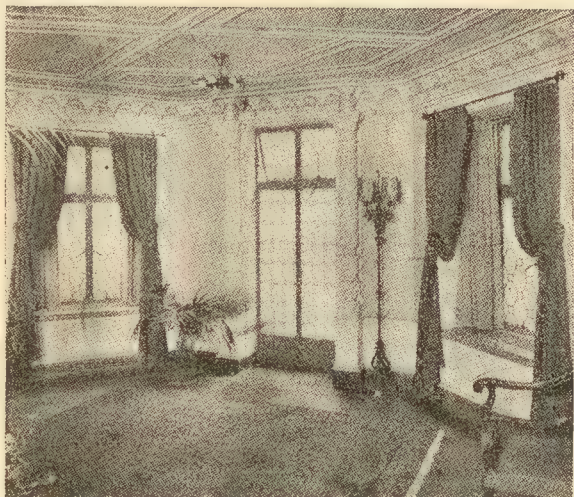
Service Station, Germantown avenue and Horter street, Philadelphia. Contract award-

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ed Louis Rosengarten, Otis Building, Philadelphia, who is taking sub-bids due as soon as possible. Architect, private plans. Owners, Tidewater Oil Co., Forty-ninth and Gray's Ferry avenue, Philadelphia. Brick, 1 story, hot water heat, electric light, metal lath, tile, shingle roof, cement floors, plumbing, electric work, composition and cement floors, steel sash, carpentry and mill work, plastering, painting and glazing, tile work.

Residence and Garage, Chestnut Hill, Pa. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, William H. Elkins, care of architect. Stone and steel, 2½ stories and basement, irregular, hot water heat, electric light, metal lath, tile, slate roof, oak and yellow pine floors, ornamental iron work.

Service Station, Fifty-second and Whitby avenue, Philadelphia. Contract awarded Claro Construction Co., Presser Building, Philadelphia. Architect, private plans. Owners, Texaco Co., Franklin Trust Building, Philadelphia. Brick, 1 story, electric work, tile roof, cement floor.

Film Exchange, 1225-27 Vine street, Philadelphia. Contract awarded Golder Construction Co., 1600 Arch street, Philadelphia. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Stanley Company of America, Eleventh and Market streets, Philadelphia. Brick, reinforced concrete, limestone, granite, 6 stories and basement, 141x53 feet, bond, demolition, excavation, concrete and cement work, structural steel, waterproofing, aluminum, skylights, kalamein doors and frames, hollow metal windows, roof ventilators, asbestos built-up roof, steel doors, steel stairs, steel toilet partitions, tile and marble, terrazzo, dampproofing, metal lath, plastering, painting and glazing, hardware, elevators, plumbing, sprinkler system, steam heating, oil burner and electric.

Building (alts.), Juniper and Walnut streets, Philadelphia. Contract awarded Wark & Co., 1608 Walnut street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Bankers' Trust Co., on premises. Demolition, terra cotta, tile, granite work, fireproofing, iron work, steel lockers, bronze work, carpentry and mill work, metal lath, plastering, painting and glazing,

marble, rubber tile floors, cement and concrete, plumbing, steam heating.

Stores and Offices (alts. and add.) to Restaurant, 1526 Chestnut street, Philadelphia, \$25,000. Contract awarded Barclay White & Co., 22 North Thirty-sixth street, Philadelphia. Architects, Hadlow, Hughes, Heck & Conrad, Cleveland, Ohio. Owners, Stauffer, Inc., Cleveland, Ohio. Demolition, concrete, cement, brick, structural steel, tile, marble, terrazzo, linoleum floors, carpentry, mill work, painting, glazing, metal lath, plastering, acoustical work, miscellaneous iron work, sheet metal work, hardware, lockers, steam heat, ventilating system, hollow tile, plumbing.

Repairs and Alterations to Fire Station No. 59, Hunting Park avenue and Schuylkill avenue, Philadelphia. Contract awarded Haverstick & Borthwick, 1505 Race street. Architect, W. S. Covell, City Architect, City Hall Annex, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 903 City Hall Annex, Philadelphia.

Store (alts.), \$10,000. 136-38 West Girard avenue, Philadelphia. Contract awarded George Kessler Contracting Co., 1733 North Marvine street, Philadelphia. Architect, private plans. Owner, Thomas Rozepski, 3173 Richmond street, Philadelphia. General alterations.

Store and Meeting Rooms, \$2,000. Northeast Corner Germantown avenue and Butler street, Philadelphia. Contract awarded Thomas M. Keeley, 4411 Germantown avenue, Philadelphia. Architect, private plans. Owners, I. O. R. M., on premises. General alterations.

Service Station, Broad and Old York road, Philadelphia. Contract awarded Metzger & Co., Otis Building, Philadelphia. Architect, private plans. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick and stucco, 1 story, 28x30 feet, slag roof, cement floors.

Bank and Office Building (alts.), \$2,000. 18-20 South Fifteenth street, Philadelphia. Contract awarded Smith-Hardican Co., 1809 Callowhill street, Philadelphia. Architect, Frank E. Hahn, 629 Chestnut street, Philadelphia. Owners, Colonial Trust Company, on premises. General alterations.

Residence and Store (alts.), \$2,775. 1206 North Fifth street, Philadelphia. Contract awarded Peter J. Brown, 3064 Tulip street, Philadelphia. Owner, Francis J. Lowen, on premises. General alterations.

Residences (31), \$121,000. North side Englewood street, West of Rowland street, Philadelphia. Contract awarded A. C. Lechler, Fifteenth and Venango streets, Philadelphia. Owner, William A. Lechler, Northeast Corner Fifteenth and Venango streets, Philadelphia.

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Brick, 2 stories, 16x25 feet, 13x15 feet, slag roof, hardwood and pine floors.

Residence (add. and alts.), \$8,000. 1738 North Uber street, Philadelphia. Contract awarded Max Cotler, 1320 North Second street, Philadelphia. Owners, S. Katzen & Son, Twenty-second and Columbia avenue, Philadelphia. Brick, 3 stories add., 35x16 feet, general alterations.

Service Station, \$3,000. Northwest Corner Adams and Castor avenues, Philadelphia. Contract awarded A. R. Raff Contracting Co., 1635 Thompson street, Philadelphia. Owners, Station Realty Co., 5340 North Camac street, Philadelphia. Brick, 1 story, 24x15 feet.

Miscellaneous Road Work, Philadelphia, Pa. Contracts awarded. Harrison street, from Montour to Bingham street, Philadelphia, \$3,187.42. Cheltenham track area, Wayne to Germantown avenue, United Paving Co., Widener Building, Philadelphia, \$14,920.72. Cheltenham track area, Germantown avenue to Morton street, Philadelphia, C. G. Centrone, 6339 Race street, Philadelphia, \$15,359.35.

Pennsylvania Construction News

Grade School, Knauertown, Warwick Township, Chester County, Pa. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Warwick Township School Board, Dr. E. De Vault Christman, President, Knauertown, Chester County, Pa. Brick, steel, 1 story, 6 rooms, slag roof, maple floors, hollow tile, roof ventilators, caulking, bond, metal sash (heating, plumbing and electric separate).

Hospital for Mental Disorders, near White Hill, Pa. Preliminary plans in progress. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Commonwealth of Pennsylvania, Department of Welfare, Bureau of Engineering and Construction, Capitol Building, Harrisburg, Pa.

Residence and Garage, School Lane Hill, near Lancaster, Pa. Sketches being drawn. Plans will be started about January, 1930. Architect, Harold Edward Williams, 2265 Garrett road, Drexel Park, Pa. Owner, Percival Smith, care of architect. Stone, 2½ stories.

School, between Morrisville and Yardley, Pa. Architect selected. Plans in progress. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Lower Makefield Township, Edwin Greenlee, President, Yardley, Pa.; Clarence H. Harvey, Secretary, Woodside, Pa.; Helen R. Satterthwaite, Treasurer, Yardley, Pa. Bond issue to voted in November.

School, Newport road, Grupp Property, Bristol Township, Pa. Architects selected. Plans in progress. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Bristol Township School Board, Ira C. Brown, President, Bristol, Pa. Bond issue to be voted in November. Deposit, \$10, refunded.

Borough Hall, \$50,000. Hummelstown, Pa. Plans in progress. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Borough of Hummelstown, George Karmany, President of Council, East Main street, Hummelstown, Pa.

Poultry House and Dairy Barn, \$20,000, near Nanticoke, Pa. Preliminary plans in progress. Architect, Alexander Prawdzik, 821 Moosic street, Scranton, Pa. Owners, St. Stanislaus' Polish Orphanage, Andrew Hychowicz, President, 1213 Prospect street, Scranton, Pa.

Church and Sunday School, Hamorton, Chester County, Pa. Plans in progress. Too early for details. Architects, H. Rex Stackhouse and W. W. Donohue, 313 South Smedley street, Philadelphia. Owners, Hamorton Methodist Episcopal Church, Hamorton, Pa. Stone, 1 story.

Residence and Garage, Block School Lane, Lancaster, Pa. Plans in progress. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owner, G. D. Blaisdell, 73 Spencer street, Lancaster, Pa. Brick, 2½ stories.

Residence, Camp Hill, Pa. Plans in progress. Architects, Jamison & Minich, 23 North Third street, Harrisburg, Pa. Owner, Carl Deen, 25 North Twenty-fourth street, Camp Hill, Pa. Brick, 2 stories, 20x60 feet, slate roof, maple floors, tile work, electric light, oil burner, flagstone, steel casement windows.

Dining Hall, Recreation Hall and (alts.) to (2) Buildings, Lloyd Mifflin Memorial Home for Aged Teachers, Columbia, Pa. Plans in progress. Architects, Jamison & Minich, 23 North Third street, Harrisburg, Pa. Owners, Pennsylvania State Education Department, Dr. Kelly, 400 North Third street, Harrisburg, Pa.

Hospital, Reading, Pa. Revised plans in progress. Ready for bids in a few days. Architect, M. B. Dechant, 632 Washington street, Reading, Pa. Owners, Homeopathic Hospital, F. S. Sertz, 135 North Sixth street, Reading, Pa. Fireproof, 2 stories and basement, 35x90 feet, built-up roof, composition floors, dumb waiters, safety treads, roof ventilators, dampproofing, architectural terra cotta, fire doors, steel sash and skylights, tile, marble, steam heat, electric light.

Residences (8 pairs), Phoenixville, Pa. Owner taking sub-bids. Architect, private plans. Owner, Joseph Sidewater, 253 South Ninth street, Philadelphia. Brick, 2 stories, 16x46

feet, slag roof, hardwood floors, tile, electric work.

Warehouse, Broad street, Pittston, Pa. Architect will be ready for bids in about ten days. Architect, E. J. Rutledge, Union Bank Building, Scranton, Pa. Owners, A. S. Powers, 103 Broad street, Pittston, Pa.

Testing Laboratory Building, Harrisburg, Pa. Owners taking bids due October 25th at 2 P. M. Deposit, \$25, refunded. Architects, Lawrie & Green, Third and Foster streets, Harrisburg, Pa. Owners, Department of Highways, Commonwealth of Pennsylvania, James

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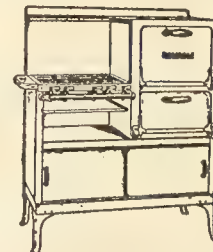
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High School (add.), \$75,000. Lemoyne, Pa. Owners taking bids due October 24th. Architect, C. J. Lapple, Parkside Building, Harrisburg, Pa. Owners, Lemoyne School Board, Mrs. J. E. Beale, President, Lemoyne, Pa. Brick, steel, 1 story, composition roof, maple floors, hollow tile, roof ventilators, bond, metal partitions, rolled steel sash, metal lath (heating, plumbing and electric separate).

High School, Ringtown, Schuylkill County, Pa. Owners taking bids due October 29th. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owners, Ringtown School Board, care of Washburn Snoich, Ringtown, Pa. Fireproof, 2 stories and basement, 135x76 feet, 110x33 feet, slate roof, maple floors, hollow tile, safety treads, roof ventilators, tile, metal lath (heating, plumbing and electric separate).

Residence, Reading, Pa. Architect taking bids due October 18th. Architect, M. B. Dechant, 632 Washington street, Reading, Pa. Owners, J. Russell Weidner, 1132 North Eleventh street, Reading, Pa. Stone, 1 story and basement, 80x40 feet, tile roof, oak floors, hot water heat, electric light, tile work, steel easement windows, area gratings, wrought iron pipe.

Foundry Building, Lebanon, Pa. Architects taking bids due October 19th. Architects, Wilbur Watson & Associates, Cleveland, Ohio. Owners, Lebanon Steel Foundry Co., Lebanon, Pa. Engineer, Edwin S. Carmen, Inc., Cleveland, Ohio. Reinforced concrete, brick, limestone, steel, 2 stories and basement, 182x158 feet, rolled steel sash, ornamental

iron work, concrete roof deck, concrete floors, excavation, grading, steel tubler doors, hollow metal doors, tin-clad doors, Barrett specification roof, painting and hardware, metal toilet partitions.

Residence and Garage, Washington Lane, Fort Washington, Pa. Owner taking bids due October 21st. Architect, private plans. Owner, Allan H. Moore, Integrity Trust Co., Sixteenth & Walnut sts., Phila. Stone and frame, 2½ stories and basement, 43x50 feet, hot water heat, electric light, metal lath, tile, bond, ornamental iron work, shingle roof, oak and yellow pine floors.

School Building, Sixth and DeKalb streets, Bridgeport, Pa. Work contemplated. Architect, not selected. Owners, School Board of Bridgeport, Pa., J. C. Mulroy, Bridgeport, Pa.

Sunday School and Parsonage, Sharon Hill, Pa. Plans in progress. Architect, Office of John B. Thompson, 1321 Arch street, Philadelphia. Owners, Radnor Methodist Episcopal Church, Rev. M. L. Davidson, 1003 Lancaster avenue, Bryn Mawr, Pa.

Apartment House, Lansdowne, Pa. Owners taking sub-bids. Architect, private plans. Owners, Woodstock Apartment Corporation, care of Isaac Miller, 535 Chestnut street, Philadelphia. Brick and steel, architectural terra cotta, 3 stories and basement, irregular size, steam heating, electric, metal lath, tile, ornamental iron work, slag roof, oak and yellow pine floors.

Residence and Garage, Lorraine Tract, near Rydal, Pa. Architects taking bids due October 21st. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, W. & M. Harkness, Packard Building, Philadelphia. Stone, 2½ stories and basement, hot water heat, electric, metal lath, tile, bond, ornamental iron work, slate roof, oak and yellow pine floors, cement floors.

Building (additional story), near Easton, Pa. (Includes offices and cafeteria). Architects taking bids October 17th. Architects, Ballinger & Co., Twelfth and Chestnut streets, Philadelphia. Owners, Individual Drinking Cup Co., near Easton, Pa. Brick and steel, 1

story, 80x320 feet, metal lath, bond, ornamental iron work, slag roof, cement floor.

Repairs to Janitor's House, Finishing Class Rooms in Leiperville School. Finishing class rooms and repairing, Kedron School. Owners taking bids due October 28th at Folsom School. Architect, private plans. Owners, Ridley Township School District, J. S. Hayes, President, Fairview, Folsom, Pa.; C. M. Lewis Corbin, Secretary, Woodlyn P. O., Pa.

Grade School, Rockledge, Pa. Low bidders. Architects, Druckenmiller & Williams, 112 South Sixteenth street, Philadelphia. Owners, Abington Township School Board, J. Gilbert North Glenside, Pa. Brick, reinforced concrete, steel, 1 story and basement, 156x56 feet, excavation, bond, reinforced concrete and cement work, cinder concrete block, marble work, (exterior) limestone, granite, bluestone, gypsum partitions, tile, dampproofing, floor hardener, caulking, structural steel, kalamein doors, fire doors, maple floors, linoleum floors, metal trim, metal toilet stalls, metal lath, plastering, painting and glazing, composition floors, slate roof (plumbing, heating, electric separate bid. Frank Seraski, Brown's Mills, N. J., \$63,275; W. J. Haggerty, 34 South Seventeenth street, Philadelphia, \$67,996. Plumbing, Fred Wackenhut, 2416 Frankford avenue, \$3,675. Heating, American Heating & Ventilating Co., 1505 Race street, Philadelphia, \$6,315. Electric, Mitchell & Co., 1337 McFeron street, Philadelphia, \$1,997.

Women's Jail, Broad Meadows Farms, Birmingham Township, Delaware County, Pa. Low bidders. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, George T. Wades, Media, Pa.; McCormick-Lenham, Fortieth and Chestnut streets, Philadelphia, \$53,394, deduct \$1,594; Bid No. 2, \$67,513, deduct \$4,413; Bid No. 3, \$68,713, deduct \$3,813; Bid No. 4, \$64,249, deduct \$3,513. Richardson & Luce, 1524 Chestnut street, Philadelphia, Bid No. 1, \$56,870, deduct \$1,900; Bid No. 2, \$66,319, deduct \$4,400; Bid No. 3, \$69,447, deduct \$4,100; Bid No. 4, \$64,447, deduct \$3,900. Heating, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, \$4,535, deduct \$225. Electric, Stewart Walters Co., 37 South Sixty-ninth street, Philadelphia, \$1,380. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$10,333.

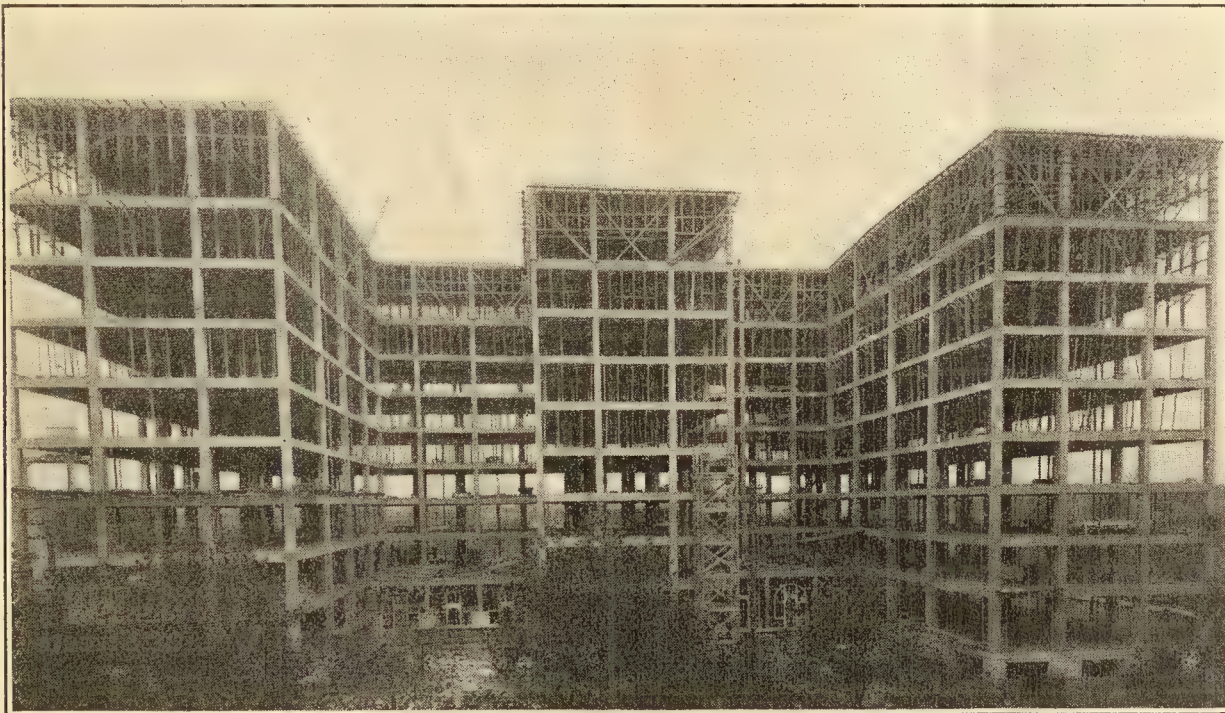
Court House (alts.), Lancaster, Pa. Low bidder: John H. Wickersham, Appel Building, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Lancaster County Commissioners, Court House, Lancaster, Pa. Interior alterations, partitions, new toilets.

East End Junior High School, York, Pa. Low bidders: C. W. Strayer, State street, Harrisburg, Pa., \$320,000; Consolidated Engineering Co., Baltimore, Md., \$320,700. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, Board of Education, D. N. Crider, Secretary, Central School Building, King and Cherry streets, York, Pa. Fireproof, 2 stories and basement, 145x200 feet, 50x100 feet, composition roof, maple and terrazzo floors, roof ventilators, hollow tile.

Road Work, 18-foot improved highway, Rynard road, from Willow or Moore road to Chestnut street; Rynard road, from Ridley Drive to Willow road; Hastings avenue, from Willow or Moore road to Chestnut street. Owners taking bids due October 30th, 8 P. M. Architects, Damon & Foster, Engineers, Sharon Hill, Pa. Owners, Commissioners of Nether Providence Township, J. Paul Palmer, Secretary, Wallingford, Pa. Alternates, 2-inch bituminous concrete surface, 3-inch bituminous macadam wearing surface.

Road Work, Pennsylvania. Owners taking bids due October 24th at 10 A. M. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Blair County, R-53, Sec. R-2, Juniata Town-



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ship. Bridge over Gap Run. Reinforced concrete, steel, excavation. Certified check, \$500.

Carbon County, R-550, A-6693, Sec. 2, Mauch Chunk and Penn Forest Townships, 24,188 feet. One course reinforced concrete, (2) bridges. Certified check, \$3,500.

Crawford County, R-258, Cambridge and Venango Townships. Bridges over Little Conneauttee Creek and over Big Conneauttee Creek. One course reinforced concrete. Excavation, reinforced concrete, steel. Certified check, \$2,000.

Juniata County, R-45, Spruce Hill and Turbett Townships, 25,961 feet. Grading and drainage, (1) reinforced concrete bridge. Certified check, \$1,500.

Mifflin County, R-470, Granville Township, 24,625 feet. Grading and drainage. Certified check, \$2,000.

Montgomery County, R-362, Sec. 2, A-5576, Lower Moreland Township, Bryn Athyn Borough, 16,468 feet. One course reinforced concrete. Certified check, \$2,500.

Perry County, R-191, Sec. A, Tuscarora and Saville Townships, 25,636 feet. Grading and drainage, (2) reinforced concrete bridges. Certified check, \$1,500.

Potter County, R-104, Sec. 1, Eulalia and Homer Townships, Coudersport Borough, 21,725 feet. Grading and drainage, (3) reinforced concrete bridges. Certified check, \$2,000.

Washington County, R-554, Sec. 3A, Cross Creek Township. Bridge over south fork of Cross Creek. Excavation, one course reinforced concrete. Certified check, \$500.

Owners taking bids due October 25th at 10 A. M.

Adams County, R-375, Cumberland and Mt. Joy Townships, 29,189 feet. Bituminous surface treated macadam surface course, (3) reinforced concrete bridges. Certified check, \$2,500.

Adams County, R-399, Reading Township, East Berlin Borough. Bridge over Conewago Creek. Excavation, bituminous surface treated macadam surface course, concrete, steel bars, structural steel, reinforced concrete arch. Certified check, \$1,500.

Adams County, R-126, Straban, Mt. Pleasant and Oxford Townships. Bridge over Little Conewago Creek, also extensions to bridge over Swift Run. Excavation, borrow, one course reinforced concrete, plain steel bars. Certified check, \$1,500.

Bedford County, R-46, Sec. 3-A, Hopewell Township. Bridge over Yellow Creek. Excavation, one course reinforced concrete, Class A and B concrete, plain steel bars, fabricated structural steel. Certified check, \$1,000.

Carbon County, R-163, Sec. 3, Lower Townships, Parryville Borough, 9,479 feet. One course reinforced concrete, 140 feet grading and drainage, (4) reinforced concrete bridges. Certified check, \$2,500.

Huntingdon County, R-192, Sec. 2, Case and Union Townships, Cassville Borough, 23,560 feet. Grading and drainage, (1) reinforced concrete bridge. Certified check, \$2,000.

Huntingdon County, R-261, Sec. 2, Oneida Township, 11,008 feet. Grading and drainage, (7) reinforced concrete bridges. Certified check, \$2,000.

Juniata County, R-193, Beale Township, 28,637 feet. Grading and drainage, (1) reinforced concrete bridge. Certified check, \$1,500.

Mercer and Trumbull Counties, A-6220, South Pymatuning Township, Pennsylvania; Hartford Township, Orangeville Borough, Ohio, 9,426 feet. One course reinforced concrete. Certified check, \$1,500. (2) reinforced concrete bridges.

Pike County, R-334, R-220, Lackawaxen Township, 26,112 feet. Bituminous surface treated macadam surface course. Certified check, \$3,000.

Schuylkill County, R-185, Rush and Kline

Townships, 1,527 feet. One course reinforced concrete. Certified check, \$1,000.

Sullivan County, R-321, Sec. 2, Shrewsbury Township, Eagles Mere Borough, 20,721 feet. Bituminous surface treated macadam surface course, (2) reinforced concrete bridges. Certified check, \$3,000.

Westmoreland County, R-302, Sec. 5, A-6857, Ligonier and Fairfield Townships, 16,490 feet. One course reinforced concrete, 410 feet grading and drainage, (2) reinforced concrete bridges. Certified check, \$2,500.

Library Building, Stonehurst, Pa. Work contemplated to be voted on in November. Architect, not selected. Owner, Stonehurst Improvement Assoc., Frank Wallace, Pres., Stonehurst, Pa.

Paving, Darby Township. Owner taking bids due November 5th, 8 P. M. Engineer, A. S. Damon, Chief of Bureau of Public Works, Upper Darby, Pa. Owner, Commissioners of Upper Darby, Thos. C. Kelly, Secretary, Upper Darby, Del. Co., Pa. Widening and paving of Bywood Ave. from Fairfield Ave., to West Chester Pike, Garrett Road, from Walnut and Sansom St. Certified check 10%.

Convent (add.), Camp Hill, Pa. Work contemplated. Owners, Dominican Sisters of the Perpetual Rosary, R. D. No. 1, Camp Hill, Pa. Too early for details. Architect not selected.

Residence, Welsh Road, east of Norristown Road, Horsham Township, Pa. Work contemplated. Architect, not selected. Owner, Geo. V. MacKinnin, Elkins Park, Pa.

Residence and Garage, Bryn Mawr, Pa. Architect taking bids due Oct. 17. Architect, Purves and Day, 315 South Fifteenth Street, Philadelphia. Owner, Frank Cortright, Morris Building, Philadelphia. Stone and steel,

2½ stories and basement, irregular, hot water heat, electric light, metal lath, tile, bond, ornamental iron work, tile roof, oak and yellow pine floors, cement floors, plumbing.

Headquarters and Recreation Building, East Lansdowne, Pa. Plans in progress. Architect, name withheld. Owner, United Cadet Corp., Col. A. W. Eckenroth, 43 Wildwood Ave., East Lansdowne, Pa., Maj. F. C. Griggs, 19 Penn Blvd., E. Lansdowne, Pa.

Roadwork, Pennsylvania. Low bidders. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Armstrong Co., R-203, Manor Township. One course reinforced concrete, (1) reinforced concrete bridge. Russell Bros., Youngstown, Ohio, \$192,618.64.

Bedford Co., R-356, Sec. 3, Londonderry Township, Hyndman Boro. One course reinforced concrete, (1) reinforced concrete bridge. J. M. Hutchinson and Narehood Bros., Altoona, Pa., \$124,716.49.

Cambria Co., R-54, Spur 1, Cambria and Blacklick Townships. One course reinforced concrete, (1) reinforced concrete bridge. M. Bennett & Sons, Indiana, Pa., \$382,934.10.

Clearfield Co., R-276, Sec. 3, Ramey Boro., Bigler Township. One course reinforced concrete. Pratt & Moore, Inc., Hollidaysburg, Pa., \$88,865.89.

Eric Co., A-6520, Northeast Township. One course reinforced concrete, (1) reinforced concrete bridge. The J. C. Devine Co., Meadville, Pa., \$76,253.83.

Franklin Co., R-340, 264-B, Letterkenny & Lurgan Townships. Bituminous surface treated macadam surface course, (5) bridges. The Continental Cont. Co., Kniekerbocker Bldg., Wilmington, Del., \$186,198.34.

Montgomery Co., R-719, A-6444-6446, Lower Merion Township. One course reinforced

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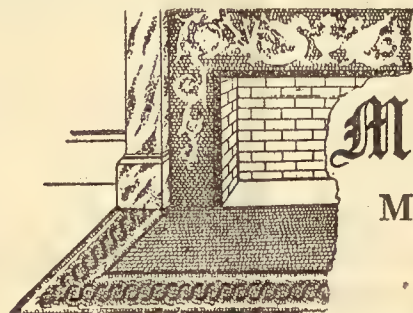
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concrete. Golden Construction Co., Otis Bldg., Phila., \$121,323.24.

Montgomery Co., R-145-146, Plymouth and West Norristown Townships, Norristown Boro. One course reinforced concrete. Roberts Paving Co., Salisbury, Md., \$210,137.90.

Potter Co., R-526, Sec. 1, Ulysses Township. Grading and drainage. (4) reinforced concrete bridges. Ohio Construction and Supply Co., Youngstown, Ohio. \$87,668.93.

Snyder Co., R-195, A-5792, Perry, Franklin and Washington Townships. Grading and drainage, (2) reinforced concrete bridges. O. P. Bell Const. Co., Inc., Sunbury, Pa. \$144,420.21.

Pennsylvania Contracts Awarded

Residence and Garage, Washington Lane and Newbold avenue, Noble Vista, Pa. Contract awarded W. P. Cameron Engineering Co., 4850 North Mascher street, Philadelphia. Architect, private plans. Owner, Oscar Nebel, 517 West Tabor road, Philadelphia. Stone, steel, 2½ stories and basement, 48x40 feet, garage 25x32 feet, hot water heat, oil burners, electric light, metal lath, tile, steel casement windows, ornamental iron work, slate roof, oak and yellow pine floors, cement floors, plumbing.

Club House, West Chester, Chester County, Pa. Contract awarded Claro Construction Co., Presser Building, Philadelphia. Architect, William Corcoran, 130 East Biddle street, West Chester, Pa. Owners, Levi M. Hood Lodge, No. 159, B. P. O. E., 314 East Gay street, West Chester, Pa. Brick, steel, cast stone, 4 stories, 40x120 feet, built-up roof, steam heat.

Residence and Garage, School Lane, Lancaster, Pa. Contract awarded Herman Wohlson, Woolworth Building, Lancaster, Pa. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owner, Robert H. Evans, care of architect. Brick, concrete block, 2½ stories, 55x60 feet, slate roof, hardwood and linoleum floors, oil burner, electric light, tile, incinerators.

Club (add.), Reading, Pa. Contract awarded Fink Construction Co., 510 Walnut street, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Wyoming Club, care of architect. Brick, steel, 3 stories, 40x50 feet, 52x40 feet, slag roof, hardwood floors, electric light.

Steward's Residence, Laurelton, Pa. Contract awarded O. P. Bell, Sunbury, Pa. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Laurelton State Village, Laurelton, Pa. General alterations and add.

Grade School Building, Northwest side Cedar road, East of Gibson avenue, Fox Chase Manor, Pa. Contract awarded. Architects,

Druckenmiller & Williams, 112 South Sixteenth street, Philadelphia. Owners, School District of Abington Township, Mr. Charles M. Doll, Secretary, Abington, Pa. Brick, reinforced concrete, steel, 1 story and basement, 156x56 feet, excavation, bond, reinforced concrete and cement work, cinder concrete block, marble work, (exterior) limestone, granite, bluestone, gypsum partitions, tile, dampproofing, floor hardener, caulking, structural steel, kalamein floors, fire doors, maple floors, linoleum floors, metal trim, metal toilet stalls, metal lath, plastering, painting & glazing, composition floors, slate roof (plumbing, heating, electric separate). Frank Seraski, Brown's Mills, N. J., \$63,275. Plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, \$3,675. Heating, American Heating & Ventilating Co., 1505 Race street, \$6,315. Electric, Mitchell & Co., 1337 McFerron street, Philadelphia, \$1,997.

Residence and Garage, Bryn Mawr, Pa. Contract awarded E. R. Hall, 34 South Seventeenth street, Philadelphia. Architects, Tilden, Register & Pepper, 1608 Walnut street, Philadelphia. Owner, W. S. Maddox, Fidelity-Philadelphia Trust Building, Philadelphia. Stone and steel, 2½ stories and basement, 82x150 feet, hot water heat, electric light, tile work, bond, steel casement windows, ornamental iron work, slate roof, oak and yellow pine floors, plumbing, carpentry and mill work, excavation, hardware.

Bulk Plant, West Chester, Pa. Contract awarded Lutz Construction Co., Twenty-third and Chestnut streets, Philadelphia. Architect, private plans. Owners, Standard Oil Co., A. M. Holler, Public Ledger Building, Philadelphia. Concrete and hollow tile, 1 story, irregular sizes, excavation, concrete and cement work, brick, overhead doors, kalamein floors, hardware and iron work, slag roof, damp-proofing, plumbing, steel sash, metal toilet partitions, linoleum floors, electric, plumbing, steam heating, septic tanks.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Montgomery County, R-198, Lower Moreland Township. One course reinforced concrete. Suburban Construction Co., Ardmore, Pa., \$77,286.88.

Chester County, R-541, Highland and East Fallowfield Townships. Grading and drainage. Dalton Brothers, Paoli, Pa., \$84,891.39.

Crawford County, Sec. 2, Wayne Township. One course reinforced concrete. Grading and drainage. J. C. Devine Co., Meadville, Pa., \$151,136.77.

Bedford County, R-119, Sec. 2, Bedford Township. One course reinforced concrete. Grading and drainage. Whittaker & Diehl, Harrisburg, Pa., \$119,842.40.

Indiana County, R-573, Sec. 1A, A-6781, Banks Township, Glen Campbell Borough. One

course reinforced concrete, grading and drainage. McCrady Brothers, Braddock, Pa., \$116,232.34.

Luzerne County, R-4, Sec. 7A, Plymouth Township. One course reinforced concrete, grading and drainage. John Booth, Inc., Carbondale, Pa., \$98,752.45.

Indiana County, R-434, Sec. 1A, Blacklick Township. One course reinforced concrete. Eastern States Construction Co., Indiana, Pa., \$56,250.71.

McKean County, A-5897, Eldred Township. One course reinforced concrete, grading and drainage. D. L. Dennis, Eldred, Pa., \$170,787.28.

Lackawanna County, R-615, Spur, Sec. 2, Scott and Greenfield Townships. One course reinforced concrete. John Booth, Inc., Carbondale, Pa., \$274,351.10.

Northampton County, R-165, Sec. 4, Forks and Lower Mt. Bethel Township. One course reinforced concrete, grading and drainage. B. G. Coon Construction Co., Luzerne, Pa., \$335,110.84.

Roadwork, Pennsylvania. Contract awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Allegheny Co., Route 187, Sec. 2C, Patton Township. Bridge over Abers Run (1) span reinforced concrete. Ferris Engineering Co., Pittsburgh, Pa., \$26,938.81.

New Jersey Construction News

Municipal Airport, from Tennessee avenue, between Twenty-second and Twenty-third streets, to Twenty-eighth street, from Bay avenue to the Bay, Ocean City, N. J. Work contemplated. Owners, City of Ocean City, City Hall, Ocean City, N. J.

Alterations, 2 Residences into Apartments, Beech Drive and Grant street, Cape May, N. J. Plans in progress. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owner, William R. Graham, 3649 Filbert street, Philadelphia. General interior alterations.

Nursery Building, Washington Crossing Park, N. J. Owners taking bids due November 4th. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Department of Conservation, Mr. Wilbur, Room 420, State House, Trenton, N. J. Cement block and stucco, 2 stories, 25x50 feet, shingle roof, maple and concrete floors (heating plumbing and electric separate).

McKonkey Barn (alts. and add.), near McKonkey Ferry House, Washington Crossing Park, N. J. Owners taking bids due November 4th. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Department of Conservation, Mr. Wilbur, Room 420, State House, Trenton, N. J. Stone (field), 2 stories, 25x40 feet, shingle roof, maple and concrete floors, steel partitions (heating, plumbing and electric separate).

Armory, Camden, N. J. Owners taking bids due October 24th at 2 P. M. Architects, Division of Architecture and Construction, Department of Institutions and Agencies, Trenton, N. J. Owner, Commissioner of Institutions and Agencies, W. J. Ellis, State Office Building, West Hanover street, Trenton, N. J. Deposit, \$25, refunded. Bond. Certified check, 5 per cent.

Stable, Camden, N. J. Architect taking revised bids due October 18th. Architect, private plans. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Brick, steel, 1 story and basement.

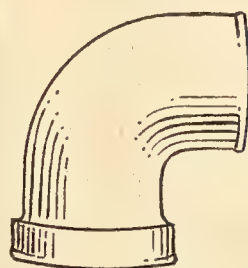
Demolition, Camden County Park, N. J. Owners taking bids due October 17th, 8 P. M. Architect, private plans. Owners, Camden County Park Commissioners, D. M. Castor, Secretary, Wilson Building, Camden, N. J. Demolition of 3 story frame residence and

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other buildings. Deposit, \$10. Certified check, 10 per cent. of bid.

Residences (2), \$7,000 total. 2923-25 Carman street, Camden, N. J. Permit issued. Architect, private plans. Owners, Tomlinson & Goodfellow, 259 South Twenty-seventh street, Camden, N. J. Brick, 2 stories, 16x40 feet, slag roof, pine floors, warm air heat, electric light.

Nurses' Home (add.), Lakeland, N. J. Low bidders. Architect, Arnold H. Moses, Camden, N. J. Owners, Camden County Board of Freeholders, Camden, N. J. General, Watson & Schleinkofer, Ateo, N. J., \$76,000. Plumbing, Harry Knecht, Collingswood, N. J., \$9,868. Heating, Charles H. Leupold, Camden, N. J., \$4,484. Electric, Franks & Sweeney, Camden, N. J., \$2,390.

Dormitory, Colony for Feeble Minded Males, Woodbine, N. J. Low bidder: John M. Yardley, 1700 Walnut street, Philadelphia, \$58,273. Architects, Division of Architecture and Construction, Charles J. Leathem, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Bridges (5), Route 39, Secs. 3, 4, 5 and 6, Burlington County, N. J. Owners taking bids due October 28th at noon. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Excavation, concrete, structural steel, reinforcing steel, piles. Certified check, 10 per cent. Deposit, \$10.

Road Work, Route S-31, Sec. 1, from Culver's Lake to Hainsville, N. J. Low bidder: Salmon Brothers, Neteong, N. J., \$684,073.08. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Earth excavation, rock excavation, borrow, reinforced concrete pavement, treated gravel shoulders, bituminous course.

Road Work, Route 31, Sec. 6, from Gladstone to Bedminster, Somerset County, N. J. Owners taking bids due October 28th at noon. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Earth excavation, rock excavation, reinforced concrete pavement, (2) bridges. Certified check, 10 per cent. Deposit, \$10.

New Jersey Contracts Awarded

High School, Bridgeton, N. J. Contracts awarded. Costanza Brothers, Camden, N. J., \$309,000. Plumbing, John Borden & Bro., 637 North Nineteenth street, Philadelphia, \$27,983. Heating, Baldwin Ventilating Co., 1509 Arch street, Philadelphia. Owners taking revised bids on electric work due October 17th. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Board of Education, Bridgeton, N. J. Brick, 3 stories and basement, 260x80 feet, wing 200x34 feet, metal lath, bond, ornamental iron work, slag roof, maple floors.

Hotel, South Carolina avenue near Beach, Atlantic City, N. J. Contract awarded Wilbert Beaumont, 1 South Tennessee avenue, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Ludy Hotel Corporation, care of architect. Brick, steel, 15 stories and basement, 82x140 feet, slag roof, concrete and composition maple floors, hollow tile, safety treads, roof ventilators, waterproofing, damp-proofing, cast stone, metal lath, tile, marble, fire doors, bond, ornamental iron, bronze work.

Service Building, \$33,500. New Jersey State Hospital for Insane, Greystone Park, N. J. Contract awarded Nora & Nora Construction Co., New Brunswick, N. J. Plumbing, Burns, Lane & Richardson, New Brunswick, N. J., \$3,556. Heating, Burns, Lane & Richardson,

New Brunswick, N. J., \$2,070. Electric, K. W. Electric Co., Newark, N. J., \$2,350. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, limestone, granite, 1 story and basement, 80x36 feet, slate roof, cement floors, rubberstone floors, cast stone, alberne stone, caulking, waterproofing, casement windows, ornamental iron, bond, tile, marble, metal lath.

School, West Atlantic City, N. J. Contract awarded John J. Green, Pleasantville, N. J., \$15,238. Heating and plumbing, Benjamin F. Risley, Jr., Pleasantville, N. J. Electric, Gruen Elec. Co., 128 North Maine avenue, Atlantic City, N. J. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owners, Board of Education of Egg Harbor Township, James Brown, Secretary, Bargaintown Hall, Bargaintown, N. J. Brick, 1 story, 70x40 feet, slag roof, pine floors, waterproofing, roof ventilators, metal lath.

Buildings (3) (alts. and add.), \$70,000. Delaware ave., South of Cooper st., Camden, N. J. Contract awarded J. S. Rogers, Drexel Building, Philadelphia. Owners, Audio Vision Appliance Co., Camden, N. J. Brick, 1 story, 8x476 feet, 56x98 feet, 16x600 feet, 20x420 feet, 32x59 feet, 48x60 feet.

Telephone Building, Hammonton, N. J. Contract awarded Knox-Landers Co., 1132 Vine street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, New Jersey Bell Telephone Co., Newark, N. J. Brick, steel, 2 stories and basement, 50x100 feet, slag roof, cement floors, steam heat, electric light, bond, ornamental iron work.

Poor House, Monmouth County, N. J. Contract awarded F. K. Arnold, Freehold, N. J., \$181,324. Architect, private plans. Owners, Board of Chosen Freeholders of Monmouth County, N. J.

Overhead Tank and Power Water Supply System, Allenwood, N. J. Contract awarded Chicago Bridge & Iron Works, New York City, \$3,750. Architect, Harry G. Borden, Engineer, Freehold, N. J. Owners, Allenwood Hospital, Allenwood, N. J.

Sewer Work, Pensauken, N. J. Contract awarded New Jersey Construction Co., Trenton, N. J., \$3,470. Owners, Pensauken Township Committee, Pensauken, N. J. Laying sewers and making loose connections. Laying sewers in Elvine and Sherwood avenues, Pensauken, N. J.

Bulkheads, Southerly Sections, Seabright, N. J. Contract awarded Jesse Howland, Sea-

bright, N. J., \$36,550. Architect, Harry G. Borden, Freehold, N. J., Engineer. Owners, Board of Freeholders of Seabright, N. J.

Miscellaneous Construction News

Boat Plant, Newport News, Va. Architects taking bids. Architects, Philip Lindsley Small and Associates, 1508 Terminal Building, Cleveland, Ohio. Owners, Horace E. Dodge Boat & Plane Corporation, New York City, N. Y. Brick and steel boat factory, 1 story, 691x80 feet, boat storage, 1 story frame, 76x340 feet, heating plant and machine shop, 1 story, 84x42 feet, office building (alts.), lumber storage shed, 1 story, 35x70 feet, watchmen's house, 24x19 feet, 1 story, steam heating, electric, metal lath, rolled steel sash, ornamental iron work, cinder concrete block, excavation, reinforced concrete, structural steel partitions, steel doors, steel toilet partitions, slag roof, roof ventilators, cement and maple floors, composition tile floors, plumbing.

Residence, Wawasett Park, Wilmington, Del. Architects taking bids due October 18th. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owners, Charles C. Keedy, DuPont Building, Wilmington, Del. Cinder block, stucco, 2 stories, 40x50 feet, tile roof, hardwood floors, hot water heat, oil burner, tile work, casement windows.

Residences and Garages (4), \$26,000. Bayard avenue, Wilmington, Del. Owner will build. Owner, Charles J. Dougherty, 600 Tattall street, Wilmington, Del. Brick, 2½ stories, 20x30 feet, slate roof, maple floors, hot water heat, electric light.

Miscellaneous Contracts Awarded

Bank Building (alts. and add.), Wilmington, Del. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia. Architect, W. E. Hauggard, 185 Madison avenue, New York City. Owners, Industrial Trust Co., Tenth and Shipley streets, Wilmington, Del. Brick, limestone, steel, 2 stories add. and store, 32x78 feet, slag roof, cement and concrete floor.

Machine Shop, \$38,000. Maryland avenue and Beech street, Wilmington, Del. Contract awarded Austin Co., 1015 Chestnut street, Philadelphia. Architect, private plans. Owners, E. I. DuPont De Nemours & Co., Wilmington, Del. 1 story, brick and steel, irregu-

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NOTICE TO CONTRACTORS

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 2.00 P. M., Wednesday, November 27, 1929, for doing all work and furnishing all materials necessary to complete the building described below, according to the plans and specifications of Davis, Dunlap & Barney, Architects, 1805 Walnut Street, Philadelphia, Pa. Separate bids are required for the general construction, for heating and ventilating, for plumbing and for electrical work.

The building occupies an area of 151 feet 6 inches by 118 feet 2 inches, and consists of a Ground Floor, First Floor and Second Floor, and a Fan Room and Warm Air Ducts under the ground floor.

The Ground Floor contains the Administration Offices, the seminars and studios, toilet rooms, storage and bindery, unpacking room, and the janitor's work spaces.

The First Floor contains the General Reading Room, Assignment Reading Room, General Delivery Room and Catalog Work Space.

The Second Floor contains the Periodical Room and unfinished portions for the future Graduate Reading Room, Special Reading Room, seminars and toilet rooms.

The Stack Room extends from the Ground Floor up to the underside of the Second Floor. The elevator hatch extends from the Ground Floor to the Pent House.

The central portion of building is of steel skeleton construction.

Generally, the first floor construction is of reinforced concrete beam and slab construction.

tion. Rear portion is of steel beam and reinforced concrete slab construction.

The second floor and main roof construction is of steel beam and girder and reinforced concrete construction. The other portion of roof and floor construction is a composite steel and reinforced concrete beam and girder and reinforced concrete slab construction. A temporary plank and slag roof is to be placed over the main roof slab.

The building also consists of reinforced concrete footings and foundation, brick walls with cut stone trim, cement floors, terrazzo floors, cork tile and linoleum floors, composition floors, metal stairways, metal sash, interior marble work, interior wood finish, plain and ornamental plastering, waterproofing, painting and decoration, roofing and sheet metal work, hardware and elevator equipment. No book stack equipment.

Heating and Ventilating includes Hot Water Heater, ventilating units, Aerofin units, fans and motors. Heat of steam from Central Plant.

Plumbing includes drainage, hot and cold water supply, gas supply and plumbing fixtures.

Electrical Work, conduit, wiring, switchboards and panel boards, telephone system, fire alarm system, buzzer system and lighting fixtures.

Plans, specifications and blank form for bids will be mailed to GENERAL CONTRACTORS by the State Board of Control when request is accompanied with check in the amount of Fifty Dollars (\$50) which amount will be refunded only on receipt of bona fide bid and the return of the plans and specifications.

Plans, Specifications and blank form for bids will be mailed to Mechanical Contractors, Heating, Plumbing and Electrical Work, when request is accompanied with check in the sum of Twenty-five Dollars (\$25), which amount will be refunded only on receipt of bona fide bid and the return of the plans and specifications.

Certified check in the amount of 1 per cent of the bid made payable to the State Board of Control must accompany the bid, and same will be returned to all unsuccessful bidders immediately after opening.

Surety bond will be required of the successful bidders, according to our law in full amount of the contract price.

STATE BOARD OF CONTROL
By James S. Lakin, President,
Charleston, W. Va.

TERMITES IN BUILDINGS

By THOS. E. SNYDER, *Senior Entomologist, Division of Forest Insects, Bureau of Entomology*

Where and What Are Termites?

People sometimes think that termites live only in tropical countries. This is a mistake. They are in the United States and are destructive wherever you find them. In the Southeastern, Central, Western, Southwestern, and Pacific Coast States, however, their damage to the woodwork of buildings is especially bad.

Termites are not true ants, although they look much like them and live in large colonies made up of different forms. The winged male and female termites which you see "swarming" for a short time in the spring or fall are on their way to start new colonies. These parent termites are not injurious, but their descendants, the wingless workers of the new colony, are very destructive. These you rarely see, because they do not crawl about in the open but stay in the earth underground or in the wood. If they want to reach woodwork above ground, they build earth-like tubes to crawl through. So they are always under cover.

How Termites Damage Buildings

Termite damage is always hidden inside the wood. The interior rafters, joists, beams, or other timbers of a building may be entirely eaten out before the insect vandals are noticed, since they leave a protective outer shell. Such damage is then hard to repair.

The termites which do the greatest damage to buildings and their contents, especially by weakening the supporting timbers, are those which live in the ground and attack wood indirectly from the ground. These ground-nesting termites cannot live without moisture, and this they get from the earth. If shut off from moisture in the earth they dry up and die.

How Termites Get Into Buildings

If your house is built in such a way that termites can get in, they very likely will. It will not do to use wood in basements, or in the foundations of buildings, because these are the places where termite damage is most likely to start.

Termites are able to penetrate masonry walls where improper grades of mortar have been used in foundations, working up through the interior of walls.

By means of earthlike shelter tubes, termites are also able to crawl up through them over impenetrable walls and thus infest buildings.

These are the principal means by which termites get into buildings.

Architects and Builders

interested in framing door and window openings WITHOUT STANDING TRIM are invited to write or telephone Kalman Steel Company, Architectural Materials Department, 1713 Sansom street, for information concerning Kalmantrim, Kalman Steel Buck and Kalman Steel Jamb.

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Protection of Basement Construction Essential

Irrespective of whether the proposed building, as to its main construction, is to be of masonry or wood, it is highly desirable, where practicable, to eliminate wood from foundations, cellars, and basements. This means the substitution for wood of concrete or other stone equivalent for basement floorings, as well as the elimination from basements of any other structural wood, including wood substitutes, such as fiber and composition boards and other substitutes containing cellulose. This prohibition does not apply to movable furniture.

Timber or lumber can be used safely in buildings if it is raised above possible soil contact a suitable distance by rock, concrete, or brick foundations, made with standard grades of mortar; or if suitably capped and if metal shields are put on to shut off passage tubes.

Cost of Termiteproofing Slight

A few hundred dollars additional (2 per cent of the first cost) spent in the beginning in proper building construction may save you thousands of dollars in repairs and replacements later. It is much simpler and cheaper to keep termites out of a building than to get rid of them and repair the damage after they are once in. The necessary repairs may be too costly for the small householder. But certain methods of construction that will prevent injury are entirely practical.

How to Build Properly Where Wood Is Used

Here are some suggested regulations for preventing termite attack which should be made a part of city building codes:

Wood or fiber products, when an approved preservative has not been forced into the product, shall not be placed in the earth or within 18 inches thereof, excepting wood columns or posts over a concrete floor, which columns shall be provided with noncorroding metal or concrete base plates or footings 6 inches above the floor. This applies to steps, which shall be laid over a concrete base, projecting at least 6 inches beyond the supports of the steps.

Timber to be used in contact with the earth shall be thoroughly impregnated by a standard-pressure process with coal-tar creosote or other equivalent preservative. Timber should be completely cut to proper dimensions before treatment, whenever possible, but when cutting after treatment is unavoidable the cut surfaces shall be thoroughly coated with coal-tar creosote or other equivalent preservative.

Masonry foundations and footing shall be laid in Portland-cement mortar. Foundations built up of masonry units, whether hollow or solid, shall be capped below woodwork with at least 1 inch of Port-

land-cement mortar, or the mortar and slate, or solid or joined noncorroding metal, or other equally efficient seal.

In the case of frame buildings, a metal termite shield shall be provided, continuing completely around the top of the masonry foundation, including all pillars, supports, and piping, below the woodwork of the building, on both the inside and outside surfaces. Such a shield may be formed of a strip of noncorroding metal (such as copper, or zinc, or an alloy composed of 28 per cent of copper, 67 per cent of nickel, and 5 per cent of iron, manganese, and silicon), firmly inserted in the surface of the masonry, or between the foundation and the wood, with the projecting edge bent downward at an angle of 45° and extending horizontally at least 2 inches from the face of the foundation. In masonry buildings this shield can be inset in the masonry at a height at least 18 inches above the ground.

Floor sleepers or joists imbedded in masonry or concrete, or laid on concrete which is in contact with the earth, shall be impregnated with an approved preservative.

Expansion joints between concrete floor and wall shall be filled with liquid asphaltum and the right-angle joint covered with a sanitary cement mortar or Portland-cement concrete finish of an arc of at least 2 inches in length.

The ends of wooden beams or girders entering masonry or concrete shall not be sealed in but shall be provided with boxes affording an air space at the end of the piece of not less than 1 inch at side of member, unless the ends of such timbers are impregnated with coal-tar creosote or other approved preservative.

Where there are spaces under floors near the earth, they shall be excavated so that there will be no earth within 18

inches of the wood, and they shall be provided with cross ventilation. Such ventilating openings shall be proportioned on the basis of 2 square feet for each 25 lineal feet of exterior wall, except that such openings need not be placed in front of such building. Each opening shall be provided with 20-mesh noncorroding-metal screening, including windows in attics.

Where timber is used in roofs of the flat type, the roof shall, unless protected on the weather side with a waterproof covering, have a slope and runoff sufficient to provide proper drainage.

All wooden forms on foundations shall be removed from masonry work within 15 days; grading stakes shall be removed before laying concrete floors.

How to Locate Damage

At once look over carefully all woodwork touching or near the ground to find out how the termites got in. Discover where the flying forms came out of the woodwork. This will indicate where the workers are in the wood. Often you will find large numbers of dead winged termites or the shed wings near by.

When you try to stop further damage by termites in buildings you should realize that their numbers may be constantly increased from some undiscovered, outside nest. Killing the swarming winged adults, although it may prevent the founding of new colonies, will not stop the damage to the woodwork by the workers inside.

Another warning that termites are around is the branching shelter tubes on foundation timbers or other woodwork, or reaching from the ground to the woodwork over the surface of stone, brick, or other foundation material through which the termites can not burrow.

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Remedies the Same as Preventives

In repairing termite-damaged buildings use the same suggestions as for the construction of new buildings. If you do so you can get rid of termites in buildings where they are already working.

Disconnecting Wood from the Ground

You will save time and expense if you disconnect the woodwork from the ground. Especially will this be so in the case of old frame buildings where extensive repairs would not be practicable. When you disconnect untreated foundation timbers from contact with the soil the termites in the other woodwork, furniture, and stored material in the building will also die, even if they have reached the second or third floors. Timbers structurally weakened so as to endanger the buildings, or disfigured woodwork, of course should be removed. However, if the wood is kept moist by some other means, such as water leakage, the termites will continue to work. This applies especially to damp corners of basements near outside water pipes, bathrooms, kitchens, and the like.

Wooden floors laid directly on the ground or on tar, or tarpaper, or on the beams on the ground, or set in concrete, should be removed. There should be a layer of concrete, or of other artificial stone effectively sealed with proper mortar or concrete, between the earth and the wood.

Capping and Facing

A frame building need not be raised or jacked up to cap the wall, but the upper tier of bricks can be removed, a few at a time, and the wall capped.

Where poor grades of mortar have been

used in masonry walls below the ground, it may be necessary for you to coat the outside or inside of the wall with Portland cement or concrete to keep termites from boring through.

Metal Termite Shields

Termite shields of metal can be inserted over the masonry foundations of buildings already constructed.

For a more complete description of termites and their habits, see Farmers' Bulletin 1472, U. S. Department of Agriculture.¹

¹ Snyder, T. E. Preventing Damage by Termites or White Ants. U. S. Dept. Agr. Farmers' Bul. 1472, 22 p., illus. 1926.

SAFE BUILDING CONDITIONS

Mr. Max Baumann of the Committee on Accident Prevention in the Building Trades Employers' Association, New York, recently made some interesting observations on safety conditions in building operations in Europe.

"The method of constructing exterior scaffolds in Europe is a system that we eliminated years ago. This is true of Italy, Switzerland, Czecho-Slovakia, Austria, Germany, Holland, France, and some parts of England, all of which countries I visited in my travels and naturally investigated building conditions. Contractors in these places are still building the pole type scaffold with the rope lashings. In London, however, they are using our latest type of pipe scaffold.

"In some of these countries, as Italy, the authorities make the contractor cover the entire front of the building under

erection with a mesh of reeds so that the facade is not exposed. In the other cities they have very little if any protection around their scaffolds except in London, where they use the foot board. London was the only place that I saw any hanging scaffolds such as we use here in New York and they are few in number.

"In England most of the construction work on tall buildings is done from the inside of the structure, but whether from the inside or the outside the scaffolds are built from the ground up.

"The interior scaffolds that I saw, particularly in some churches in Germany, are terribly flimsy. In Cologne they were repairing the Cathedral and it is still a mystery to me how the stone masons and stone cutters ever got their material up to the high points, where they were working, without an accident.

"In Paris they have very poor scaffolds and the derricks are exceedingly small and most of them are operated by hand power. Reinforced concrete is invariably used.

"In Berlin, during the erection of a recently completed department store, there were a great number of fatal accidents in the steel and concrete construction, owing to the lack of protection for the men. This is a structure 200 feet wide by 800 feet deep by 10 stories high. I was told they have a very severe accident rate on steel work. Berlin, though, is the most beautiful, cleanest and best built city in Europe.

"There are lots of four-story apartment houses going up in Vienna. They are up to date in equipment and I was surprised to see how modern their construction is when I made an inspection of one garden group that will eventually house 20,000 people. It must extend for a mile and is being financed by the Government. All are of stucco. Vienna has not recovered from the war. Her people are poor, but they are industrious. It is a wonderful city.

"In Italy all the new buildings are fire-resisting, being built of concrete, terra cotta and brick.

"Very little American material is imported by the European countries as they have their own terra cotta and cement mills and other material plants."

—*Architecture and Building.*



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The rapid progress being made toward three objectives of organized contractors, involving the development of a sound credit structure for the construction industry, the recording of the performance records of all contractors and the standardization of terms of sale for equipment, will be the chief items on the program of the forthcoming meeting called by the Associated General Contractors of America at the Bond Hotel, Hartford, Conn. This was just announced by D. A. Gar-

ber, General Manager of the contractors' organization.

The first of these objectives, according to Garber, concerns the formation of local credit associations which are being created to eliminate loose credit conditions in the building industry. In fifty cities credit bureaus are being formed through the co-operative work of general contractors, sub-contractors and material dealers, although the plan being followed was only formulated last year.

The success attending the application of the credit plan in Detroit, Memphis and Los Angeles, which cities undertook to prove that the tremendous credit losses and attending competitive ills of the industry could be corrected through sound credit practices, have aroused nation-wide interest, it is said.

Consideration will be given to ways and means to assist the Bureau of Contract Information, Inc., an independent venture launched through co-operative action of the A. G. C. and organized surety companies. This agency is gathering the facts concerning the past performance of every contractor in the United States so that public officials and others may know the records of bidders when awarding construction contracts.

The third item on the program, which is stressed by Garber, concerns the co-operative work under way between equipment manufacturers and the A. G. C. to the end that agreed upon sales practices will be observed by equipment companies.

Standard terms of sale have been adopted by fifty of the leading manufacturers due to the promotion work of the contractors' association. It is claimed that the results are already being felt in the elimination of special easy terms once given to individual contractors who were not entitled to consideration.

At the Hartford meeting the Executive Committee, the Executive Board, the Advisory Council and the Secretaries' Council of the A. G. C. will go into session to plan for further development of these and other objectives of the organization. As in previous meetings all contractors and others connected with the industry are being invited. Open sessions only are held.

MEETING OF SIMPLIFIED PRACTICE COMMITTEE ON MASONRY OPENING SIZES, ADDRESSED BY SECRETARY OF COMMERCE, ROBERT P. LAMONT. SUB-COMMITTEE APPOINTED TO DRAFT TENTATIVE RECOMMENDATIONS PROPOSING A MASONRY UNIT

"Economy in the building and construction industries is more necessary now than ever before," says Secretary of Commerce, Robert P. Lamont, in an in-

formal address of welcome to the members of a Simplified Practice Committee on Masonry Opening Sizes, at a meeting held recently at the Dept. of Commerce, Washington, D. C., under the auspices of the Division of Simplified Practice, National Bureau of Standards, Department of Commerce.

Outlining the services which the Department of Commerce has to offer the industries in the matter of the elimination of industrial waste and making for better economy in building operations, Mr. Lamont stated that, "it is often necessary for the component elements of an industry to compromise on questions of minor importance in order that they may effect simplification or commercial standards programs which will be of benefit to the whole industry as well as to the entire country." Mr. Lamont further stated that "the Department of Commerce, through its Division of Simplified Practice of the Bureau of Standards, is ready to support industry on any program that meets with the approval of the majority of that industry."

It was the consensus of opinion of those present, in discussing the subject of a standard unit dimension for masonry, that the fundamental or "Key" building unit was embodied in the brick. It was accordingly suggested that a brick plus a mortar joint be established as a unit of measure, the length of the brick to equal a unit minus one joint; the width one-half unit minus one joint; and the thickness being 1/3 unit minus one joint. For the purpose of these considerations a mortar joint was taken to equal one-half inch.

Mr. LeRoy E. Kern, representing the American Institute of Architects, who was elected chairman of the Simplified Practice Committee announced that he will shortly appoint a sub-committee which will consist of one representative each from the Face Brick Manufacturers, the Common Brick Manufacturers, and the Associated General Contractors of America. It will be the duty of this sub-committee to prepare a report in the form of a recommendation as to some standard dimensional unit, such as suggested at the conference held in Washington. This recommendation, necessarily tentative in its nature, will subsequently be referred to all those interested in the subject for their consideration and criticism.

"LIGHTING OPERATOR" IN FRONT OF CURTAIN CONTROLS THEATRE LIGHTS

A new system of controlling the lights of a theatre, involving new and unique principles and minimizing time, labor and valuable space, has been developed by the General Electric Company and installed in the new Chicago Civic Opera

House. The Lighting director (usually the stage electrician), heretofore unseen to the audience but vitally important to the success of the production, now leaves his position back-stage for the first time in theatrical history, and takes his place in front of the curtain along with the prompter and the musical director.

In front of the curtain, the lighting operator will control the stage and house lighting as easily and as intelligently as the orchestra conductor now directs the orchestra. In front and on each side of him will be arranged dials, knobs, tumbler switches, indicating lights, etc. By the mere manipulation of a single knob all the complexities of stage lighting will be controlled, lights of various colors fading and brightening at various points and at the proper moments. Scenes requiring complex lighting effects such as sunsets, sudden thunderstorms, ballets, etc., will require no more effort in their control than is required to flick a lighting switch in the home or to turn a door knob.

The advantages of the new method are manifold. Heretofore, the control of theatre lights was centralized in a switchboard back-stage which, in the larger theatres, sometimes was 40 feet long by 8 feet high. Arranged on this switchboard were rows upon rows of "dimmers" with large levers whose movement controlled the brightening or dimming of the various lights or groups of lights. The operation of these dimmers required much physical effort and agility, and many elaborate and ingenious mechanical schemes were often resorted to in order to simplify the work. Their manipulation made it necessary for the electrician to be at a point "off-stage" where he could not see, except indirectly, the effects he was producing and where he had to rely on cues of words or sounds to inform him when it was necessary to change the lighting effects. Such a switchboard is no longer necessary.

The new method also follows the modern trend which makes simplicity an essential, especially in theatres. By eliminating the old bulky switchboard in the wings, more space is made available to stage operations, and co-ordination of activities results.

The General Electric control scheme which makes the new method possible involves principally the use of three important devices: the self-synchronous motor, the low-vacuum rectifying tube marketed under the trade name of "thyatron" and a new type of saturated-core reactor. Reactors have been used before in stage lighting but a new type had to be designed to fit the new system.

The selsyn is a device resembling an ordinary electric motor in appearance and general construction. Contrary to the

operation of a motor, however, the rotating element does not revolve at a high rate of speed, but moves slowly—rarely more than a complete revolution. When two selsyns are interconnected electrically, the movement of the rotating element of one produces a corresponding movement of the other rotating element in the same direction and by exactly the same amount. It is by the use of these devices that the operation of the Panama Canal locks is controlled, and they are also used in this country for various purposes including the opening and closing of bridges, operation of elevators, etc.

One side of the voltage supply to each light or group of lights passes through one winding of a saturated core reactor. The other winding of this reactor is fed by direct current in varying amounts from a pair of thyratrons. The amount of rectified current supplied by these thyratrons depends on the electrical relationship between the elements of each tube, and this is determined by the control devices governed by the lighting operator. As the amount of direct current fed by the thyratrons to the reactor varies, the resistance of the reactor to the lighting supply load varies from a point where the lights are out, to full brilliancy.

The immediate determination of the relationship of the elements of the thyratrons is through the agency of devices called phase modulators. There are two of these for every individual lighting circuit, one for use during the present scene and the other for the purpose of "setting up" the next scene. The operation of the modulators is, in turn, governed mechanically either by the action of a selsyn or by knobs in front of the lighting operator.

By manipulating the knobs on the individual modulators, the lighting operator could control the lights, but it would involve the operation of a possible 141 knobs in the case of the Chicago Civic Opera House, as there are that many lighting circuits on the stage. By the use of the selsyns, however, it is possible to govern all the lighting circuits through one knob, or to split the control into major and minor divisions, depending on color, location and function, each group in turn controllable through the agency of a knob. This is done in the following manner:

The grand master knob controlling all the lights on the stage electrically controls the movement of the rotating element of a grand master selsyn. This selsyn is electrically connected with selsyn governing not only the major and minor groups of lights, but also the individual modulators for single lighting circuits. Therefore, movement of the ground master selsyn's control knob causes all the selsyns operating the modulators to move in conformity with it, and the modulators, preset in accordance with the requirements of the scene, operate to

control the lights. If, however, individual control of any major or minor group or individual lighting circuit is desired, the knob in question may be turned and the resulting movement does not interfere with any of the other circuits.

There are 141 individual stage lighting circuits in the new Chicago Civic Opera House. Each of these circuits includes lights of but one of the four colors used on a theatre stage—amber, white, blue and red. A typical circuit may cover the amber lights at one side or the center of the footlights, the red lights in one of the light bridges, or the white lights in one of the "pockets." These individual circuits are grouped under the control of master knobs governing, for example, all the blue lights in the borders and footlights, all the amber in the pocket lights, all the white in the light bridges, etc. In addition, all the lights of each color, no matter where, are controlled by a color master knob. Finally, all the color master knobs can be group controlled by the grand master knob. The same system is followed with the "house" lights of the theatre, but in a much simpler form as the lighting circuits involved are comparatively few.

The energy involved in the control of any of the individual lighting circuits is approximately one-tenth that consumed by a pocket flashlight. The energy controlled, however, runs as high as 30,000 watts in a given circuit—more than half as great as the power ratings of the largest broadcasting stations in this country.

In actual operation, the lighting operator will preset the individual modulators to create the desired lighting effect in the first scene and, when the performance starts, the modulators will be connected in the circuit by means of a master tumbler switch. Varying the intensity of the lights will then be merely a matter of turning the grand master knob, or other knobs as desired. During the first scene and in the interval between it and the following scene, the lighting effects for the subsequent scene will be preset at the modulators by the lighting operator and, when the change occurs, the first group of modulators will be disconnected from the circuit and the second connected in the circuit simply by a flick of the master tumbler switch, when operation will proceed as before.

The lighting operator and his control devices will be located in the Chicago Civic Opera House, in a booth similar to and near the prompter's booth, enabling him to see all the lighting on the stage, and a periscope through which he can see all the lighting in the auditorium proper. All the selsyns and modulators will also be located at this point, but will occupy very little room as they are compactly built. The reactors will be mounted on frames at remote points where there is room, such as beneath the

stage or on the "grid" level high above the flies. The wiring to the lights will be arranged as heretofore.

DON'T LET COMPETITORS DICTATE YOUR BID

"When we contractors give competition so much consideration that we let competitors dictate bid pricing, we are far in the wrong," was the gist of the message delivered by George C. Hunt, former president of the Associated Contractors of South Dakota, on the occasion of his annual address to the organization.

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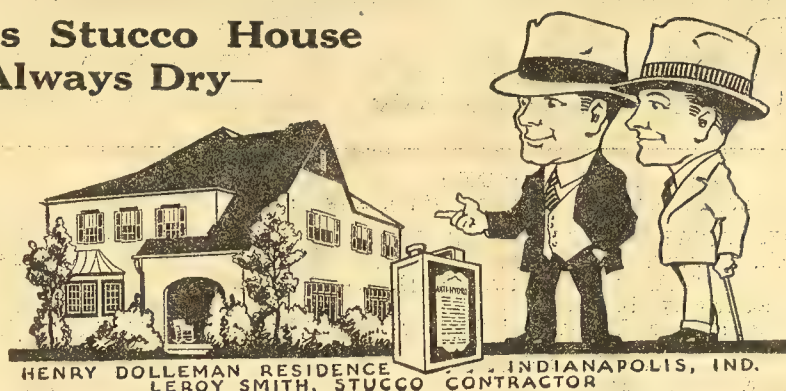
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 43

October 23, 1929

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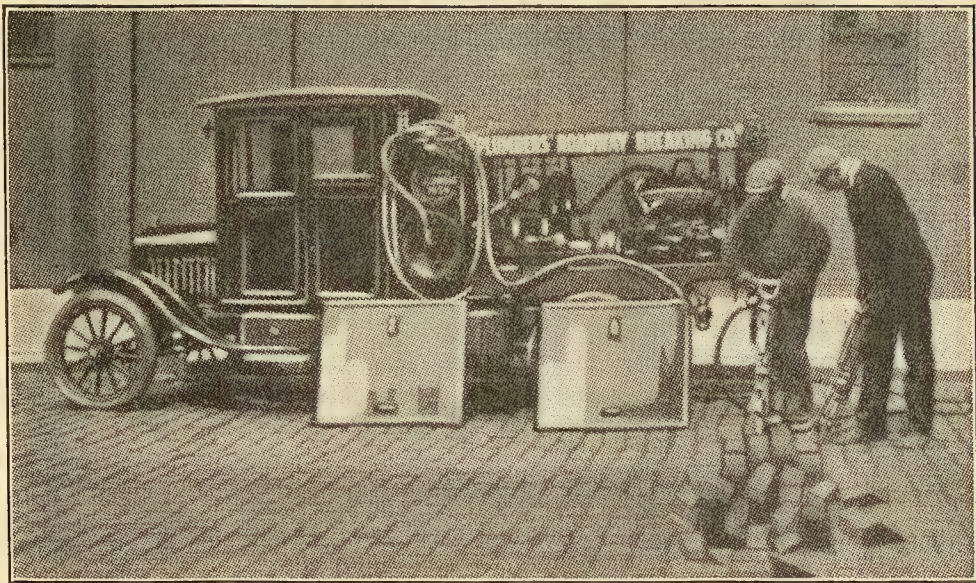
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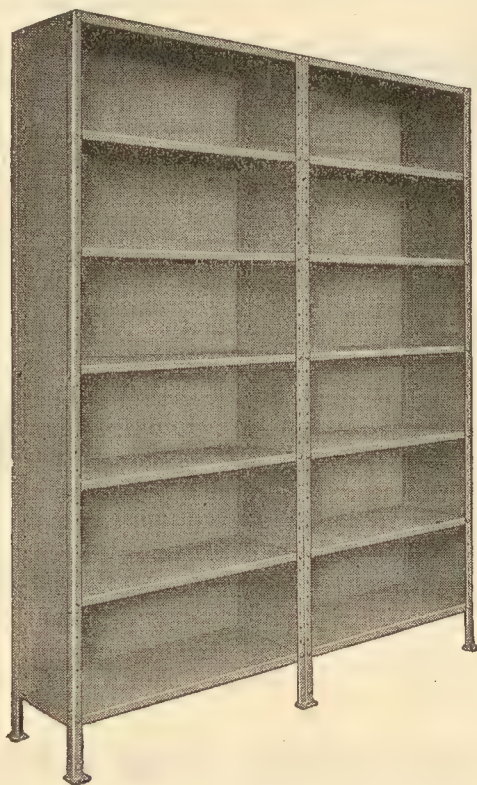
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 43

Engineering and the Building Trades

PHILADELPHIA

October 23, 1929

BUILDERS' GUIDE

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store Building, 1316 Chestnut street, Philadelphia. Plans in progress. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Lerner Stores Corporation, 352 Fourth avenue, New York City. Brick, limestone, steel, granite, 4 stories and basement, 22x150 feet.

Residence (alts.) into Apartment, Southwest Corner Fifty-ninth and Warrington avenue, Philadelphia. Owner taking bids. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owner, E. Cutler, Fifty-eighth and Belmont avenue, Philadelphia. General alterations, brick work, cement work, tile, carpentry, painting and glazing, kitchen equipment, plastering.

Show Room and Service Station, 1611-13 Foulkrod street, Philadelphia. Architect taking bids due October 26th. Architect, Christian F. Fries, Frankford and Oxford avenues, Philadelphia. Owner, C. John Birkmann, 5131 Roosevelt Boulevard, Philadelphia.

Warehouse, Torresdale and Kinsey street, Philadelphia. Owners ready for bids about November 1st. Architect, private plans. Associate architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Crane Co., D. G. Park, Purchasing Agent, 836 South Michigan avenue, Chicago, Ill. Brick and steel, 1 story and basement, 60x110 feet.

Residence No. 3, Allen's Lane, West of Greene street, Philadelphia. Architect taking bids due October 26th. Architect, Edwyn Rorke, North Glenside, Pa. Owner, Walter S. Steumfig, 5400 Wayne avenue, Philadelphia. Stone and steel, 2½ stories, 60x40 feet.

Motor Sales Building, Allegheny and Glen-

wood avenues, Philadelphia. Architect taking bids. Architect, Eugene Stopper, 10 South Eighteenth street, Philadelphia. Lessees, Brockway Motor Company. Owner, Charles Kahn, Sydenham and Locust streets, Philadelphia.

Residences (26), Marble street, Philadelphia. Owner will build and is taking sub-bids. Architect, private plans. Owner, Benjamin Cylinder, 249 Rockland street, Philadelphia. Stone, 2½ stories, 16x38 feet, hot water heat, electric light, metal lath, slate roof, hardwood floors.

Shelter Platform, \$3,000. 2821 Richmond street, Philadelphia. Permit issued. Owners, Reading Company, Twelfth and Market streets, Philadelphia.

Bakery and Storage Building (alts. and add.), \$5,500. 1214-16 Mifflin street, Philadelphia. Permit issued. Architect, John E. Sindoni, 2001 South Norwood street, Philadelphia. Owner, G. D. Regurns, 1218 Mifflin street, Philadelphia. Brick, 1 story add., 32x60 feet, general alterations.

Gas Station, \$5,000. Northeast Corner Godfrey and Rising Sun avenue, Philadelphia. Permit issued. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Tile, 1 story, 18x39 feet.

Residences (34), \$156,500. Cottman street, East of Walker street, Philadelphia. Permit issued. Architect, Karl F. Otto, 2240 North Broad street, Philadelphia. Owners, Finestone & Mittleman, 514 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 18x37 feet, 16x21 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (48), \$179,000. Glenlock street, South of St. Vincent street, Philadelphia. Permit issued. Architect, Karl F. Otto, 2240 North Broad street, Philadelphia. Owners, Finestone & Mittleman, 514 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 16x28 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Gas Station, \$5,000. Southwest Corner Germantown avenue and Good street, Philadelphia. Permit issued. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Brick and tile, 1 story, 18x39 feet.

Residences (16), \$57,000. East side J street, South of Pike street, Philadelphia. Permit issued. Architect, private plans. Owner, Nathan Epstein, 247 East Loudon street, Philadelphia. Brick, 2 stories, 16x25 feet, 11x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Bungalow, \$2,000. East side Herman street, North of Linden street, Philadelphia. Permit issued. Architect, private plans. Owner, John A. Keil, Arundel and Wissinoming streets, Philadelphia. Frame, 1 story, 24x24 feet.

School Supplies, Lumber and Physical Training Supplies, Philadelphia. Owners taking bids due November 4th. Architect, private plans. Owners, Board of Education, City of Philadelphia, 19th at Chestnut street, Philadelphia.

Bridge, Henry avenue, over Wissahickon Creek, Philadelphia. All bids rejected. Owners will take new bids in a week. Architect, private plans. Owners, Department of Public Works, Bureau of Engineers and Surveys,

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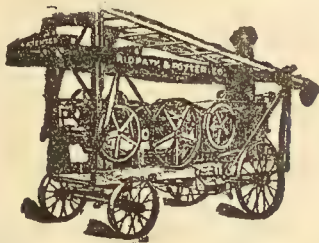
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Repaving Broad Street, Kater to South Penn Square. Contract 197, Pine street, Broad to Thirteenth street, and Thirteenth street, from Pine to Lombard street, Philadelphia. Low bidder: Elkins Paving Company, 635 North Holly street, Philadelphia, \$161,807.50. Owners, City of Philadelphia, Department of City Transit, C. E. Myers, Director, Thirteenth Floor, City Hall Annex.

Schedule A, Contract No. 6. Owners taking bids October 30th. Architect, private plans. Owners, Department of Public Works, Bureau of Engineering, Room 903, City Hall Annex, Philadelphia. Foundations for Arch and Thirtieth Street Viaduct. Opened 12th floor City Hall Annex, Thirteenth Street side. Inquire Room 1101.

Repairs and Remodeling Building, 223-27 Chestnut Street, Philadelphia. Owners taking

bids, due November 18th. Architect, James A. Wetmore, Acting Supervising Architect, Treasury Building, Washington, D. C. Owners, Treasury Department, U. S. Marine Hospital, Phila., a. Plans and specifications may be obtained from architect. Deposit \$15 made payable to Treasurer of U. S. Repairs and remodeling, except elevators.

Contract No. 223, South Street to north of Girard Avenue, Philadelphia. Owners taking bids, due November 1st. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, City Hall Annex, Philadelphia. Compact rail and bonding track. Bids opened 12th floor, Thirteenth Street side. Deposit \$25.00, refunded.

Buildings 3 and 4, Colona Street, Philadelphia. Architects taking bids, due October 24. Architects, The Ballinger Co., Twelfth and Chestnut Streets, Philadelphia. Owners, R. T. French Co., 2228 North Tenth Street, Philadelphia. Reinforcing floors.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bank Building, Broad and Columbia avenue, Philadelphia. Contract awarded John N. Gill Construction Co., 1500 Chestnut street, Philadelphia. Architect, Paul Cret, Otis Building, Philadelphia. Owners, Integrity Trust Company, Walter Hart, 16th and Walnut streets, streets. Brick and limestone, reinforced concrete, 10 stories and basement, 54x118 feet, steam heat, electric light, metal lath, marble, hollow metal sash, bond, iron stairs, ornamental iron work, bronze work, area gratings, cinder concrete block, Barrett specification roof, concrete roof deck, cement floors, elevators, caulking, waterproofing, demolition, excavation, imitation travertine, metal doors, metal toilet partitions, plumbing.

Temporary and Mezzanine Alterations, 1645 North Broad street, Philadelphia. Contract Phila. Brick and limestone, reinforced Thompson street, Phila. Architect, Paul Cret, 112 S. Sixteenth street, Philadelphia. Owners, Tenth National Bank, Integrity Trust Company, on premises. Heating, electric work, pine floors, demolition, painting, glazing, carpentry and mill work. Bond.

Alterations, 2225 Pine street, Philadelphia. Contract awarded C. C. Eddleman, Presser Building, Philadelphia. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, Edward Kneass, on premises. Brick, 3 stories, 40x17 feet, slag roof, oak and yellow pine floors, general interior alterations.

Film Building, 1225-29 Vine street, Philadelphia. Contract awarded Golder Construc-

tion Co., 1600 Arch street, Philadelphia, taking revised sub-bids. Architects, Hodgins & Hill, 130 South Tenth street, Philadelphia. Owners, Stanley Company of America, Eleventh and Market streets, Philadelphia. Brick, reinforced concrete, limestone, granite, 6 stories and basement, 141x53 feet, bond, demolition, excavation, concrete and cement work, structural steel, waterproofing, aluminum, skylights, kalamein doors and frames, hollow metal windows, roof ventilators, asbestos built-up roof, steel doors, steel stairs, steel toilet partitions, tile, marble and terrazzo, dampproofing, metal lath, plastering, painting and glazing, hardware, elevators, plumbing, sprinkler system, steam heat, oil burner, electric work.

Alterations and Addition, 2060 Cheltenham avenue, Philadelphia. Contract awarded Penn Building Company, Haines and Ardleigh streets, Philadelphia. Architect, private plans. Owner, Charles Zimmerman, on premises. Brick, 32x60 feet, hot water heat, electric, slag roof, linoleum floors, plastering, painting, sheet metal work.

Store (alts.), \$2,000. 114-16 South Ninth street, Philadelphia. Contract awarded G. Thomas Holloway, 523 Ludlow street, Philadelphia. Owners, Lean & Jones, 114 South Ninth street, Philadelphia. General alterations.

Store and Residence, \$6,500. Southwest Corner Bainbridge and Marshall streets, Philadelphia. Contract awarded Nicholas Seurci, 732 South Seventh street, Philadelphia. Ar-

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chitect, private plans. Owner, Joseph Ger-mar-is, 709 South Marshall street, Philadel-phia. Brick, 3 stories, 21x28 feet, slag roof, electric light.

Store and Residence (alts.), \$2,275. South-east Corner Forty-fifth street and Lancaster avenue, Philadelphia. Contract awarded Isa-dore Belinski, 5423 Upland Way, Philadel-phia. Architect, private plans. Owner, Frieda Mueller, 1549 North Fifty-eighth street, Phila-delphia. General alterations.

Residence (add.), \$2,000. 2420 Pine street, Philadelphia. Contract awarded Joseph Tex-ler, 2518 North Corlies street, Philadelphia. Architect, private plans. Owner, James P. Metheny, on premises. Brick, 2 stories add., 12x23 feet.

Residence (repairs), \$2,600. 476 West Win-ona avenue, Philadelphia. Contract awarded William C. Wright & Son, 22 Harvey street, Philadelphia. Architect, private plans. Own-er, John H. Smith, on premises. General fire repairs.

Residences (3), \$18,500. 5319-21-23 Oxford avenue, Philadelphia. Contract awarded Frank Lucci, 1603 Ellsworth street, Philadel-phia. Architect, private plans. Owner, Ar-thur Fink, Land Title Building, Philadelphia. Brick, 2 stories, 18x49 feet, 14 feet 5 inches x 11 feet, hardwood and pine floors, hot wa-ter heat, electric light, tile work.

Hospital (alts.), \$4,000. Northeast Corner Twentieth and Susquehanna avenue, Philadel-phia. Contract awarded Smith-Hardican Co., 1809 Callowhill street, Philadelphia. Archi-tect, private plans. Owners, Women's Homeo-pathic Hospital, on premises. General altera-tions.

Addition, \$4,000. 3182 Richmond street, Philadelphia. Contract awarded K. Zoltowski, 2737 East Indiana avenue, Philadelphia. Ar-chitect, private plans. Owner, A. Dannbewiez, 3150 Almond street, Philadelphia. Brick, 2 stories add., 20x30 feet.

Garage, \$3,000. 1138 East Columbia ave-nue, Philadelphia. Contract awarded Albert E. Dell, 1532 East Berks street, Philadelphia. Architect, private plans. Owner, Theo. C. Ulme, Inc., on premises. Brick, 1 story, 20x105 feet, slag roof, cement floors.

Gas Station, \$3,000. Southwest Corner Nine-teenth and Jackson streets, Philadelphia. Con-tract awarded A. Raymond Raff Contracting Co., 1635 West Thompson street, Philadel-phia. Architect, private plans. Owners, Sta-tion Realty Co., 5340 Camac street, Philadel-phia. Brick, 1 story, 15x24 feet.

Manufacturing Building (alts.), \$3,000. North side Thompson street, East of Cumber-land street, Philadelphia. Contract awarded Turner Construction Co., 1700 Walnut street, Philadelphia. Owners, John T. Lewis & Co., Widener Building, Philadelphia. General al-terations.

Factories (2), \$205,000. West side Swanson street, South of Oregon street, Philadelphia. Contract awarded Potash Brothers, Water and Wolf streets, Philadelphia. Architect, pri-vate plans. Owner, Raymond Goldstein, Water and Wolf streets, Philadelphia. Brick, 2 sto-ries, 115x250 feet, and 2 stories, 48x185 feet.

Store and Storage Building (alts.), \$3,000. 3006-08 Germantown avenue, Philadelphia. Contract awarded Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia. Archi-tect, private plans. Owner, J. Schwartz, 4717 North Tenth street, Philadelphia. General al-terations.

Gas Station, \$3,000. Southeast Corner Fif-ty-second and Pentrige streets, Philadelphia. Contract awarded A. Raymond Raff Co., 1635 Thompson street, Philadelphia. Architect, pri-vate plans. Owners, Station Realty Co., 5340 Camac street, Philadelphia. Brick, 1 story, 15x24 feet.

Garage, \$2,000. 2038 William street, Phila-delphia. Contract awarded William Schoppe, 1960 East Elkhart street, Philadelphia. Owner, Louis Kemper, 2036 Williams street, Philadel-phia. Brick, 1 story, 18x56 feet, slag roof, cement floors, electric work.

Road Work, Philadelphia, Pa. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, Room 1002, City Hall Annex, Philadelphia. Moyamensing ave-nue, from Mifflin to Morris street, Philadel-phia, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$23,395.04. Front street, Arch to Cherry street, Willow, etc., Union Paving Co., 123 South Twenty-first street, Philadelphia, \$21,305.90. Pine, track area, Twenty-second to Twenty-third street, Philadelphia, United Paving Co., Widener Building, Philadelphia, \$1,835.80.

Witherspoon Building (alts.), Juniper and Walnut Streets, Philadelphia. Contract award-ed Thomas H. Latta, 1926 Sansom Street, Phila-delphia. Architect, Stanford B. Lewis, 1713 Sansom Street, Philadelphia. Owners, Presby-terian Publication Society, care of O. R. Wil-iamson, Witherspoon Building, Philadelphia. General alterations.

New Hospital Building (alts. and add. Dis-pensary Building), Powelton Avenue and Saunders Avenue, Philadelphia, \$1,200,000. Contract awarded Irwin & Leighton, 1505 Race Street, Philadelphia. Architect, John W. Windrim, Commonwealth Building, Philadel-phia. Owners, Presbyterian Hospital, on premises. Brick, limestone, steel, 5 stories and basement, 281x52 feet, wing 48x51 feet, car-pentry and millwork, bond, demolition, rein-forced concrete, excavation, water and damp-proofing, cement floors, gypsum block, iron work, area gratings, metal casement sash, steel sash, metal doors, slag roof, metal lath, plas-tering, marble, tile and terrazzo, incinerator, kitchen and pantry equipment, metal lockers

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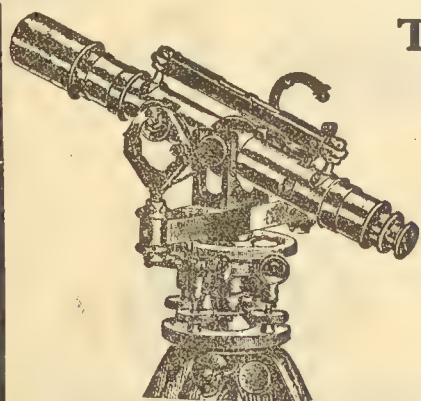
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Pennsylvania Construction News

Junior High School, \$450,000. Phoenixville, Pa. Work contemplated. Architect, not selected. Owners, School Board of Schuylkill Township, Mrs. Gertrude A. Eberle, Phoenixville, Pa. Bond issue to be voted upon in November.

Warehouse and Garage, 718-34 North Quincy street, Allentown, Pa. Architects selected. Maturity indefinite. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Brockway Sales Corporation of Pennsylvania, Inc., C. E. Kline, West and Fairview streets, Allentown, Pa. Brick.

Bank Building, \$60,000. Yardley, Pa. Architects selected. Preliminary sketches drawn. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Yardley National Bank, Yardley, Pa., Henry W. Comfort, President, Yardley, Pa. Stone and steel, 1 story, basement and mezzanine.

Club House (add.), \$20,000. 117 West Second street, Berwick, Pa. Plans in progress. Architect, John Heavener, R. D. No. 2, Berwick, Pa. Owners, Berwick Lodge, No. 1138-B, B. P. O. E., care of House Committee, Dr. E. L. Davis, 124 East Front street, Berwick, Pa.

Hospital Building, Norristown, Pa. Plans in progress. Architects selected. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Montgomery Hospital Association, Abraham T. Eastwick, President, care of James Lees Sons Co., Bridgeport, Pa.

Store Building, Jenkintown, Pa. Preliminary plans in progress. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Elkins Shelbe Co., Jenkintown, Pa. Brick, 1 story and basement.

Residence, Office and Garage, Croyden, Pa. Plans in progress. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Dr. A. Gongaliz, Croyden, Pa. Brick and steel, 2½ stories and basement, 30x45 feet, hot water heat, electric light, metal lath, tile, ornamental iron work, slate roof, oak, yellow pine and linoleum floors.

Residence and Garage, Bryn Mawr, Pa. Plans in progress. Durham & Irvine, 312 South Broad street, Philadelphia, will build. Architect, Walter K. Durham, 312 South Broad street, Philadelphia. Owner, J. Spencer Halkett, Bentley and Tregaron roads, Philadelphia. Brick and stone. Too early for details.

Junior High School, \$400,000. Phoenixville, Pa. Preliminary plans in progress. Architects,

Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Phoenixville, George Donehower, President, Phoenixville, Pa. Brick and steel, 2 stories and basement.

Chapel, \$12,000. Calvin street, Dunmore, Pa. Revised plans in progress. Architect will soon take bids. Architect, A. J. Ward, Scranton-Lackawanna Office Building, Scranton, Pa. Owners, Dunmore Italian Presbyterian Church, Arthur Vellala, Chairman, Building Committee, 204 South Apple street, Dunmore, Pa.

Y. W. C. A. Auditorium and Dormitory, \$25,000. Lake Ariel, Lackawanna County, Pa. Plans in progress. Engineer, Tudor Williams, Scranton Life Building, Scranton, Pa. Owners, Y. W. C. A., Miss Myrtle Waugh, 638 Linden street, Scranton, Pa.

Armory (add.), \$35,000. Berwick, Pa. Plans in progress. Architect, Thomas Atherton, 139 South Main street, Wilkes-Barre, Pa. Owners, Commonwealth of Pennsylvania, State Armory Board, South Office Building, Harrisburg, Pa.

Store and Apartment Building, \$25,000. Southeast Corner Sixth and Lehigh streets, Palmerton, Pa. New plans in progress. Architect, G. R. Gross, 459 Lafayette street, Palmerton, Pa. Owners, Stephen Nowacki, 602 Lehigh avenue, Palmerton, Pa.

Residence and Garage, Lapidea Hills, Swarthmore, Pa. Preliminary plans in progress. Architect, Edwyn Rorke, North Glenside, Pa. Owner, Guy H. Newcomb, 128 South Front street, Philadelphia. Too early for details.

Residences (100), Pottstown, Pa. Plans in progress. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Walter J. Wolf, 900 Franklin street, Pottstown, Pa. Brick, 2½ stories, hot water heat, slag roof, electric light, hardwood floors.

Hydro Electric Plant, \$30,000,000. Safe Harbor, Pa. Work contemplated. Owners, Pennsylvania Water & Power Co., and Consolidated Gas, Electric Light & Power Co., 40 Wall street, New York. Includes the construction of dam costing \$4,300,000 and power house costing \$2,714,000, raising railroad tracks, and equipment and transmission lines. The Water and Power Resources Board of Pennsylvania will hold meeting October 30th, 1929, to consider plans for approval.

Alterations and Addition, Office Building, Chester, Pa. Engineer taking bids due October 24th. Engineers, Public Works Engineering Corporation, Mr. Brodsky, 40 Exchange Place, New York City. Owners, Chester Water Service Co., Chester, Pa. Metal partitions, metal lath, vault doors, marble work, plastering, rubber tile floors, alterations, plumbing and heating.

Factory (add.), \$15,000. York, Pa. Owners

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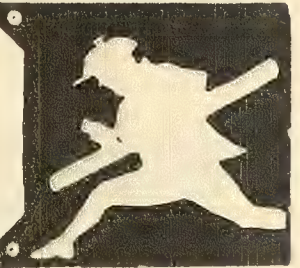
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will be ready for bids about October 25th. Architects, H. E. & R. B. Yessler, Schmidt Building, York, Pa. Owners, Barnes Wall Paper Co., Albert G. Barnes, Treasurer, West King street and Hoke's Mill road, York, Pa. Frame, 1 story.

Equipment for School, Cornwells, Pa. Plans ready for bidders in a few days. Architect, A. Oscar Maratin, Doylestown, Pa. Owners, Cornwells School Board, Cornwells, Pa. Equipment for gymnasium, domestic science, cafeteria, kitchen, commercial school, standard seating for classrooms and gymnasium.

Raub Junior High School (add.), St. Cloud and Walnut streets, Allentown, Pa. Owners will be ready for bids in a week or ten days. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Allentown School District, D. A. Miller, President, 29 South Penn street, Allentown, Pa. Fireproof, 3 stories, 109x33 feet, 39x65 feet, 30x48 feet, maple and composition floors, hollow tile, safety treads, roof ventilators, fire doors, steel skylights and sash, tile, marble, metal lath (heating, plumbing and electrical work separate).

Residence and Garage, \$20,000. Valley Forge road, between Phoenixville and Valley Forge, Chester County, Pa. Architect taking bids due October 24th. Architect, John H. Mowere, 221 Bridge street, Phoenixville, Pa. Owner, Dr. S. W. Mackie, Buck Building, Phoenixville, Pa. Stone, 2½ stories, 30x40 feet.

Residence and Garage, \$80,000. Country Club road, Bryn Mawr, Pa. Wallace & Warner will build and sublet. Architects, Wallace & Warner, 1500 Chestnut street, Philadelphia. Owner, name withheld. Brick and stone. Details undecided.

Residence and Garage, Rydal, Pa. Architect taking bids due October 29th. Architect, Albert F. Schenk, Harrison Building, Philadelphia. Owner, name withheld. Stone, frame, 2½ stories and basement, 36x69 feet, shingle roof (plumbing, heating and electric reserved), metal lath, tile, bond, ornamental iron work, oak and yellow pine floors.

Removal of Grade Crossings, \$55,000. Tunnel under Sproul road, Swarthmore, Pa. Architect, private plans. Owners, Borough of Swarthmore, Pa. Work contemplated. Loan to be approved in November.

Cinder road, 1,450 feet long, 28 feet wide, Fort Mifflin, Pa. Engineers taking bids due November 5th at noon. Engineers, War Department, United States Engineers' Office, 1109 Gimbel Building, 35 South Ninth street, Philadelphia. Owners, War Department, United States Government, Washington, D. C. 678 cubic yards excavation, 2,580 cubic yards

cinder fill, 152 linear feet 18-inch corrugated pipe, 4,500 square yards surface treatment.

Paint and Glass, Harrisburg, Pa. Owners taking bids due November 12th, noon. Owners, Commissioners of Pennsylvania, Department of Supplies and Property, B. E. Tatlor, Secretary, Capitol Building, Harrisburg, Pa. Certified check.

Senior High School (add.), South Ardmore, Pa. Plans in progress. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, Haverford Township School Board, Thos. A. Bock, Superintendent, Haverford, Pa. One story and basement, 4 class rooms and locker rooms.

Home Building, Upper Darby, Pa. Work contemplated. Architect not selected. Owners, Upper Darby American Legion, Post No. 214, care of Citizens' Committee, Upper Darby, Pa.

Lodge Building, \$45,000, Chestnut Street and High Street, West Chester, Pa. Preliminary plans in progress. Architect, Wm. Corcoran, 139 East Biddle Street, West Chester, Pa. Owners, West Chester Lodge, Loyal Order of Moose, care of architect. Brick and steel.

Hospital (add.), Lewistown, Pa. Bids will be taken about January, 1930. Architects, Witman & Royer, 36 East Market Street, York, Pa. Owners, Lewistown Hospital, Thos. Zook, Chairman of Building Committee, Belleville, Pa. Brick, steel, 3 stories and basement, slate roof, composition floors, linoleum, roof ventilators, heating extension, electric light.

Low Lift Pumping Station, \$150,000, Sunbury, Pa. Plans in progress. Engineers, Wm. H. Dechant & Sons, 632 Washington Street, Reading, Pa. Owners, Sunbury Power Co., Wm. R. Rohrbach, President, 503 Market Street, Sunbury, Pa.

Filtration Plant and Pumping Station, \$80,000, Ephrata, Pa. Plans in progress. Engineers, Wm. H. Dechant & Sons, 632 Washington Street, Reading, Pa. Owners, Borough of Ephrata, Ephrata, Pa.

Changes to Heating System, \$20,000. **Extension of Water Mains**, \$10,000. **Sewage Disposal Works**, \$30,000. **Standard Plumbing Specifications**, \$10,000. Pennhurst State School, Pennhurst, Pa. Plans in progress. Engineers, Wm. H. Dechant & Sons, 632 Washington Street, Reading, Pa. Owners, Commonwealth of Pennsylvania, Pennhurst State School, Bureau of Engineering and Construction, State Capitol, Harrisburg.

Extensions to Water Main, \$7,000. **Power House Generating Equipment**, \$25,000. Wernersville State Hospital, Wernersville, Pa. Plans in progress. Engineers, Wm. H. Dechant & Sons, 632 Washington Street, Reading, Pa. Owners, Commonwealth of Pennsylvania.

vania, Wernersville State Hospital, Bureau of Engineering and Construction, State Capitol, Harrisburg.

Armory, \$50,000. Cavalry Post, Bellefonte, Pa. Plans in progress. Architect, Joseph F. Kuntz, Westinghouse Building, Pittsburgh,

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Pa. Owners, Commonwealth of Pennsylvania, State Armory Board, Bureau of Engineering and Construction, Capitol Building, Harrisburg, Pa.

Armory (add.), \$35,000, Milton, Pa. Plans in progress. Architect, Thomas Atherton, 139 South Main Street, Wilkes-Barre, Pa. Owners, Commonwealth of Pennsylvania, Department of Engineering and Construction, State Armory Board, Capitol Building, Harrisburg, Pa.

Road Work, Pennsylvania. Owners taking bids, due November 8, at 10 A. M. Owners, Commonwealth of Pennsylvania, Department of Highways, James L. Stuart, Secretary, Capitol Building, Harrisburg Pa.

Carbon County, A-6406, Lower Towamensing Township, 32,612 feet one course reinforced concrete, 100 feet grading and drainage. Three reinforced concrete bridges. Certified check \$4,000.

Clearfield and Centre Counties, R-219, Cooper and Snowshoe Townships. Bridge over Moshannon Creek. Two span, excavation, concrete, plain steel bars, structural steel. Certified check \$1,500.

Crawford County, R-271, Centerville Borough. Bridge over East Oil creek, 2 span, one course reinforced cement concrete pavement, excavation, borrow, concrete, plain steel bars, fabricated structural steel. Certified check \$1,500.

Erie County, R-258, Washington Township. Bridge over Conneauttee Creek, one span, excavation, borrow, one course reinforced concrete, concrete, plain steel bars, fabricated structural steel. Certified check \$1,000.

Greene County, A-242, Washington Township. 5,780 feet bituminous penetration surface course on broken stone or slag base. Certified check \$1,000.

Lawrence County, R-265, Sec. 5, Little Beaver Township, Enon Valley Borough. Bridge, structural steel and reinforced concrete, one span, crossing tracks of Pennsylvania Railroad near Enon Valley Station. Excavation, borrow, one course reinforced concrete pavement, concrete, fabricated struc-

tural steel, plain steel bars. Certified check \$2,500.

Lehigh County, A-6391, Whitehall and North Whitehall Townships. 10,177 feet one course reinforced concrete, 295 feet grading and drainage. Certified check \$2,000.

Somerset County, R-119, Sec. R-2, Jenner Township. 5,417 feet one course reinforced concrete, 48 feet grading and drainage. Certified check \$2,000.

Sullivan County, R-17, Spur, Cherry Township. 13,605 feet grading and drainage, two reinforced concrete bridges. Certified check \$1,000.

Union County, R-176, 24, Buffalo, Union, East Buffalo and Kelly Townships, Lewisburg Borough. 28,118 feet one course reinforced concrete, four bridges. Certified check \$3,500.

Pennsylvania Contracts Awarded

Women's Building, Broad Meadow Farms, Birmingham Township, Delaware County, Pa. Contracts awarded. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, George T. Wades, Media, Pa. Stone, limestone, steel, 2½ stories and basement, 56x32 feet, slate roof, cement floors, metal lath, rolled steel sash, kalamein doors (plumbing, heating, electric separate), bond, excavation, reinforced concrete, fireproof, iron work, interlocking gratings, canvas roof, linoleum floors, hardware, painting, glazing. McCormick-Lenham Co., Fortieth and Chestnut streets, Philadelphia, \$68,713. Heating, Fred Waackenhut, 2416 Frankford avenue, Philadelphia, \$4,535. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$10,333. Electric, Stewart Walters Co., 37 South Sixty-ninth street, Philadelphia, \$1,380.

Completion of New Rectory and Addition to Chapel, Southeast Corner Eleventh and Lincoln avenue, Prospect Park, Pa. Contract

awarded Pennypacker & Transeau, Schaff Building. Architect, Frank R. Watson, 1500 Locust street, Philadelphia. Owners, St. James' Church, Prospect Park, Pa. Stone, tile, 2 stories and basement, 40x32 feet, bond, excavation (Penn-Jersey Stone Tile Co.), stone foundations, Mastertex, paints, cast stone (Penn-Jersey, Formigli or equal), flagstone, steel and iron work, carpentry and mill work, oak and pine floors, cast stone sash (J. S. Thorn or Lenco), hardware, plastering, metal lath, painting and glazing, electric work, slate roof, tin roof, composition roof (Barrett's), plumbing, steam heating, boiler (American Radiator Co.), radiators (American or equal), linoleum floors.

School (alts. and add.), Croyden, Bucks County, Pa. Contract awarded William R. Dougherty, 1608 Sansom street, Philadelphia. Architect, Henry Dagit, 1329 Race street, Philadelphia. Owners, St. Thomas' Roman Catholic Church, Rev. Thomas J. Nolan, Croyden, Pa. Brick and steel, 2 stories and basement, 56x53 feet, bond, excavation, concrete and cement work, waterproofing, steel and iron work, area gratings, dampproofing, hollow tile, carpentry and mill work, yellow pine floors, built-up roof, hardware, metal ceilings, metal lath, plastering, painting and glazing, electric work, plumbing, steam heating.

Residence and Garage, Lot No. 98, Overbrook Hills in Merion, Pa. Contract awarded Joseph C. Mowrer, Springfield, Pa. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, J. Parke Steen, Southeast Corner Broad and Chestnut streets, Philadelphia. Stone, 3 stories and basement, 26x65 feet, central heat, electric, metal lath, tile, ornamental iron work, shingle roof, oak and yellow pine floors, electric refrigeration, plumbing.

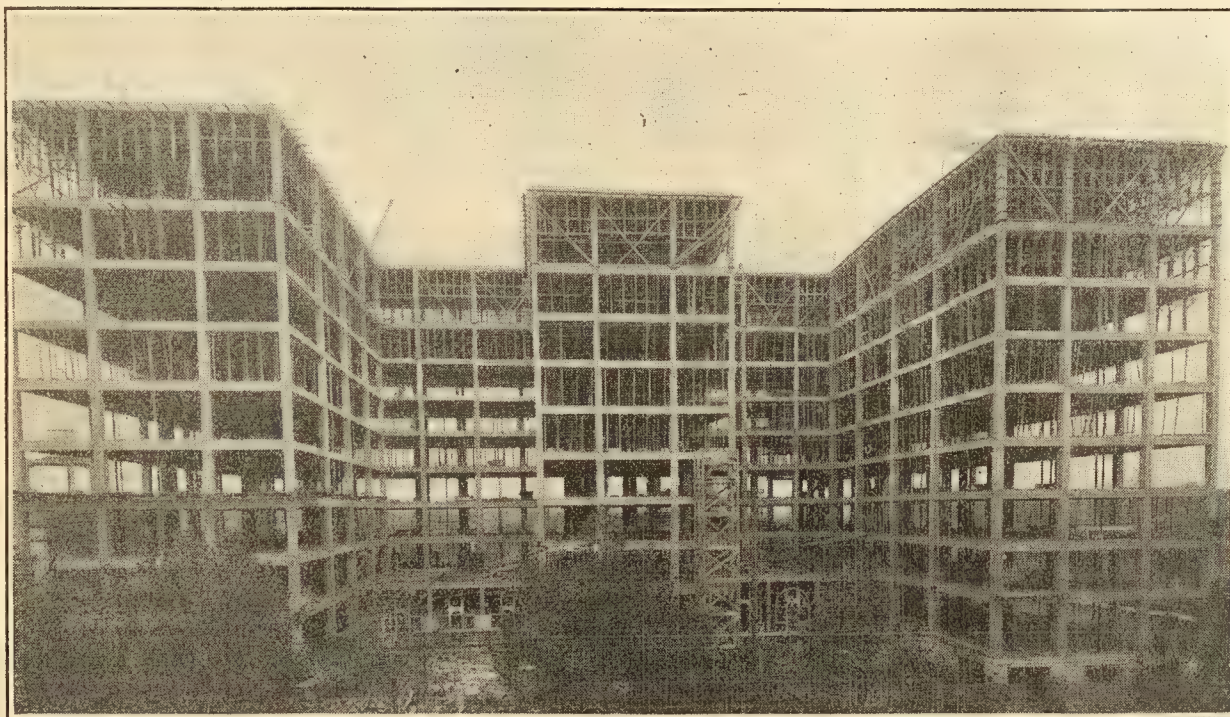
Store Building, Chester, Pa. Contract awarded William Provost, Jr., Chester, Pa. Architects, Nimmons, Carr & Wright, Chicago, Ill. Lessees, Sears & Roebuck, Roosevelt Boulevard, Philadelphia. Owner, Paul Kolber, Southeast Corner Sixteenth and Walnut streets, Philadelphia. Brick, steel, 2 stories and basement, 60x150 feet, asphalt roof, cement floors, steam heat, electric light, metal lath, steel doors, ornamental iron work, sprinkler system, plumbing.

Country Club (add.), Easton, Pa. Contract awarded Earl E. Garber & Co., Inc., 203 West Fourth street, Bethlehem, Pa. Architect, William Michler, Drake Building, Easton, Pa. Owners, Northampton Country Club, Mr. Walters, Easton, Pa. Frame, stucco, 2 stories, 50x50 feet, asbestos roof, maple floors.

Residence and Garage, Jenkintown, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Harry C. Helwig, Jenkintown, Pa. Brick, 2½ stories, 26x35 feet, hot water heat, electric, metal lath, tile, bond, ornamental iron work, slag roof, oak and yellow pine floors.

Residence and Garage, Jenkintown Manor, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architect, Harold Edward Williams, Drexel Hill, Pa. Owner, A. E. Horst, 193 East Roosevelt Boulevard, Philadelphia. Stone, brick, 2½ stories and basement, 60x47 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile, bond, steel casement windows, ornamental iron work.

Club House, Wayne, Pa. Contract awarded Flanigen & Flanigen, Bryn Mawr, Pa. Architects, Tilden, Register & Pepper, 1608 Walnut street, Philadelphia. Owners, St. David's Golf Club, Wayne, Pa. Stone, steel, limestone, 1 story and basement, 24x90 feet, wing 100x35 feet, metal lath, tile, marble, shingle roof, cement floors, metal weather strip, waterproofing and dampproofing, excavation, caulking, brick work, bond, area gratings, canvas tin roof, Celotex, maple and linoleum floors,



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rough hardware, painting and glazing (plumbing, heating and electric, sprinkler system, kitchen equipment, refrigerator, finished hardware, ornamental iron work, lockers, club racks, toilet accessories reserved).

Garage (alts. and add.), White Horse, Paoli, Pa. Contract awarded W. D. Lukens, North Wales, Pa. Architect, Carl Ziegler, 1012 Walnut street, Philadelphia. Owner, Alfred E. Pfahler, on premises. Stone and frame, 2 stories and basement, electric light, shingle roof, yellow pine floors, painting.

Road Work, Pennsylvania. Contract awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

York County, R-332, Sec. B, Lower Winsor and Chanceford Townships. Grading and drainage. Richard Hopkins Co., Albany, N. Y., \$77,619.76.

Lackawanna County, R-332, 648, A-6302, Benton Township. One course reinforced concrete. Tyler & Bole, Meshoppen, Pa., \$272,735.94.

Center County, R-404, Sec. 1, Ferguson and Patton Townships, State College Borough. One course reinforced concrete. Ross Construction Co., Westview, Pittsburgh, Pa., \$298,167.67.

Cafeteria and Dispensary Building, Eddystone, Pa. Contract awarded Wark & Co., 1608 Walnut Street, Philadelphia. Architects, Simon & Simon, Fidelity-Phila Trust Bldg., Philadelphia. Owners, General Steel Castings Co., Eddystone, Pa. Brick, steel, reinforced concrete, one story, 211x55 feet, steam heat, electric light, terrazzo, rolled steel skylights, area grating, built up roof, linoleum floors, cement floors, plumbing, metal weatherstrip, caulking, waterproofing, dampproofing, steel plate windows, hardware, monolithic floor, gypsum block, metal toilet partitions.

Residence (alts. and add.), near Jeffersonville, Pa. Contract awarded Raymond Houghton, Norristown, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, John A. Longacre, 926 West Marshall Street, Philadelphia. General alterations.

East End Junior High School, York, Pa., \$320,000. Contract awarded C. W. Strayer, State Street, Harrisburg, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, School Board of City of York, D. N. Crider, Secretary, Central School Building, York, Pa. Fireproof, 2 stories and basement, 145x200 feet, 50x100 feet, composition roof, maple and terrazzo floors, hollow tile, safety treads, roof ventilators, waterproofing, architectural terra cotta, steel, tile, metal lath. Low bidders: Plumbing: C. C. Kottecamp & Son, 515 West Market Street, York, \$21,660. Heating and ventilating: American Heating Co., Elverson Building, Philadelphia, \$56,545. Electric: John W. Lippold, 107 West King Street, Lancaster, \$18,978.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Franklin County, R-340, 264-B, Letterkenny and Lurgan Townships. Bituminous surface treated macadam surface course, five bridges. Continental Construction Co., Knickerbocker Building, Wilmington, Del., \$186,198.34.

Clearfield County, R-276, Sec. 3, Ramey Borough, Bigler Township. One course reinforced concrete. Pratt & Moore, Inc., Hollidaysburg, Pa., \$88,865.89.

Owner, Stanley Cramer, care of Radio Condenser Company, Copewood and Thorne streets, Camden, N. J. Brick, 100x165 feet.

Residence, Northfield, N. J. Plans in progress. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owner, name withheld. Brick, 2½ stories, 26x50 feet, slate roof, hardwood and cement floors, hot water heat, electric light, tile work, mill work.

Stables for Armory. Dumont, N. J. Owners will be ready for bids in a few days. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J. Brick, block, 1 story, 30x200 feet, slag roof, cement floors, steel sash.

Hotel (add. and alts.), 127 South Kentucky avenue, Atlantic City, N. J. Architect will be ready for bids in one week. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City, N. J. Owner, Joseph I. Levy, care of architect. Brick, steel frame, 4 stories, irregular size, 30 baths, tin roof, pine floors, roof ventilators, electric light, tile work, steel sash, skylights.

Hotel (25-room add.), Eighth street, near Boardwalk, Ocean City, N. J. Plans in progress. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Hanscom Brothers, Inc., 734 Market street, Philadelphia. Brick and steel.

Berkley Plaza Hotel, Chelsea avenue and Boardwalk, Atlantic City, N. J. Architects taking bids due October 28th. Architects, J. R. Ogden and J. R. Ogden, Jr., 143 S. South Carolina avenue, Atlantic City, N. J. Owner, name withheld. Brick and steel, reinforced concrete, limestone, 13 stories, basement and tower, 249x154 feet, vapor heat, electric light, metal lath, tile, marble, rolled steel skylights,

bond, ornamental iron work, slag roof, cement, oak and yellow pine floors, hollow tile, elevators, excavation, demolition, ice making and refrigeration system, pumps, artesian wells, screens, carpentry and mill work, bronze store fronts and doors, hollow steel doors and trim, bronze entrance doors, plumbing, laundry machinery, ventilating system.

Dormitory (alts. and add.), New Jersey State Hospital for Insane, Greystone Park, N. J. Owners taking revised bids due October 31st. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2 stories and basement, 61x50 feet, slag roof, metal window guards, caulking, hollow metal doors, tile, marble, metal lath, excavation, reinforced concrete, waterproofing and dampproofing, cinder block, iron work, Alberne stone, doors and window screens, steel toilet doors, painting, glazing (plumbing, heating, electric separate).

Dormitory Building, Colony for Feeble Minded Males, Woodbine, N. J. Owners taking revised bids due October 28th. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J. Brick, steel, 2½ stories and basement (plumbing, heating, electric separate).

Wessells Memorial Buildings, \$300,000, New Brunswick, N. J. Architects taking bids due October 28th. Architect, York & Sawyer, 100 East Forty-second street, New York City. Owners, Rutgers University, New Brunswick, N. J. Brick and steel, 3 stories and basement, irregular, steam heating, electric light, metal lath, tile, bond, ornamental iron work, slate

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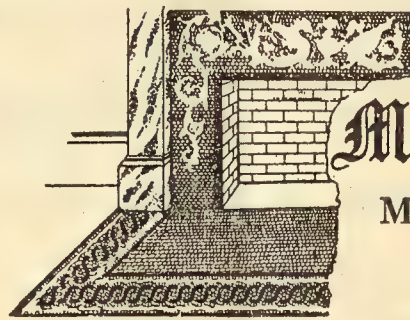
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New Jersey Construction News

Manufacturing Building, Southeast Corner Seventh and Bouslin streets, Camden, N. J. Work contemplated. Architect, not selected.

roof, maple and yellow pine floors, cement floors.

Temporary Bridge, over Pennsylvania Railroad track at Thirty-second street, Camden, N. J. Plans completed. Owners will soon take bids. Architect, private plans. Owners, City of Camden, care of Frank B. Hanna, Department of Public Works, Camden, N. J.

Road Works, Cross State road, from Camden to Spurs North of Toms River South to Manatawken, N. J. Project to mature in 1930. Architect, private plans. Owners, State Highway Commissioner, Trenton, N. J. 40 miles of concrete road. Engineer for the spurs, H. S. Shinn, Toms River, N. J. Owners for the spurs, Ocean County, N. J.

Tunnell or Overhead Road, Sixth Street, Camden, N. J. Owners will soon take bids. Architect, Ralph Modjeski, Engineer, 1420 Walnut Street, Philadelphia. Owners, Delaware River Joint Commission, Joseph K. Costello, General Manager, Bridge Plaza, Camden, N. J.

Residence (alts. into 4 Offices), 8 North Tenth Street, Camden, N. J. Plans in progress. Architect, Howard E. Hall, 515 Market Street, Camden, N. J. Owner, Oscar Higginbotham, care of architect. New front, electric work, repairs to roof and floors.

Theatre, 2 Stores and 4 Apartments, King's Highway, East and Ellis Street, Haddonfield, N. J. Owner ready for bids in a few days. Contemplated. Architect, Howard E. Hall, 515 Market Street, Camden, N. J. Owner, Leslie W. Orr, Haddonfield, N. J. Brick, steel, concrete, 3 and 1 story and basement, 72x190 feet, hot air and vapor heat, electric, tile, terrazzo, composition, oak and concrete floors, hollow metal skylights, kalamein doors, copper bulks, iron stairs, waterproofing, terra cotta, alternate, concrete foundations, ornamental plastering, plate glass, plumbing.

High School, Washington Street, Riverside, N. J. Work contemplated. To be voted on in February. Architect, private plans. Owners, Riverside Township Committee, care of J. Taylor Neal, Riverside, N. J.

Animal Pound, \$5,500, Fairview, near Newton Creek, Camden, N. J. Tentative plans drawn. Owner will soon take bids. Architect, private plans. Owners, Camden County Hu-

mane Society, care of Commissioner Frank B. Hanna, Department of Public Safety, Camden, N. J.

Street Paving, Pensauken, N. J. Owners taking bids, due October 28th, 8 P. M. Architects, Remington, Vosbury & Goff, Camden, N. J. Owners, Pensauken Township, R. V. Peabody, Pensauken, N. J. 4,645 sq. yds. 7-in. reinforced concrete paving. 100 square yards 6-inch concrete gutters. 1,150 subic yards excavation. 1,750 lineal feet concrete curb 6-in. 75 lineal feet armored radial curb 6-in. 100 square feet sidewalks, 4-in. Deposit \$20.00, refund \$10.00. Bond. Certified check 10 per cent.

Residences and Garages (4), \$4,000 each, 484-86-90-92 North Thirty-fifth Street, Camden, N. J. Permit issued. Architect, private plans. Owner, Alfred Johnson, 6336 Wyndam Road, Merchantville, N. J. Brick, 2 stories, 14x40 feet, Carey roof, hot water heat, electric light.

Store Building (alts.), \$15,000, 15 Broadway, Camden, N. J. Permit issued. Architect, Frank V. Nickels, 16 South Twenty-first Street, Philadelphia. Owners, Stecker's, on premises. General alterations, new entrance.

New Jersey Contracts Awarded

Office Building and Stores, Broad and State streets, Trenton, N. J. Contract awarded Harold E. Witteman, 188 Montague street, Brooklyn, N. Y. Architects, William I. Hohaus, Inc., 17 West Forty-fourth street, New York City. Owner, C. W. Schragger, Broad Street Bank Building, Trenton, N. J. Associate architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Brick, steel, 4 stories and basement, 88x89 feet, Barrett roof, cork, maple, linoleum floors, hollow tile, (2) elevators, safety treads, roof ventilators, bronze, ornamental iron, soundproofing, iron stairs, fire doors, kalamein work, steel sash, tile, marble, terrazzo, metal lath, steam heat, electric light. L. S. Kaplan, 33 West State street, Trenton, N. J., taking sub-bids.

Foundry Building, Southeast Corner Sev-

enth and Burson streets, Camden, N. J. Contract awarded Carl L. Furner, 96 Kindall Boulevard, Oaklyn, N. J. Architect, Ernest L. Ergood, Collingswood, N. J. Owners, Stanley S. Cramer, care of Radio Condenser Co., Copewood and Thorne streets, Camden, N. J. Structural steel, sheet metal work, 1 story, 40x80 feet. Subject to approval of city authorities.

Bank Building, Lambertville, N. J. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia. Architect, John T. Brugger, Public Ledger Building, Philadelphia. Owners, Amwell National Bank, Lambertville, N. J. Brick and steel, 1 story.

Auction and Show Room, Carman street, Camden, N. J. Contract awarded J. T. Allen, Woodbury, N. J. Architect, Walter Thomas Mayo, Temple Building, Camden, N. J. Owners, Heaton Piano Realty Co., 417 Market street, Camden, N. J. Brick, reinforced concrete, 2 stories, 43x70 feet, built-up roof, yellow pine floors, roof ventilators, demolition, steel casement windows, hollow metal skylights, tile work, artificial marble, oil burner, electric light.

School, Steelmanville, N. J. Contract awarded John J. Green, Pleasantville, N. J. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Egg Harbor Township School District, James Brown, Clerk, McKee City, N. J. Brick, 1 story, 33x64 feet, slag roof, pine floors (heating, plumbing and electric separate).

Boiler Room (add.), \$2,000. Southwest Corner Fifteenth and Mickle streets, Camden, N. J. Contract awarded Bennett-McLaughlin Co., 3434 Sansom street, Philadelphia. Owners, Public Service Co-ordinated Transport Co., Newark, N. J. Block, 1 story add., 24x30 feet, concrete slab roof, vapor heat, electric light.

Residence and Garage, \$5,000. 3310 Lemuel avenue, Camden, N. J. Contract awarded George N. Hathaway, 2445 Forty-third street, Merchantville, N. J. Owner, James Ritchie, 551 Grant street, Camden, N. J. Frame, 2 stories, 22x32 feet, asphalt shingle roof, hot water heat.

Repaving and Widening, Lafayette Street, Riverside, N. J. Contract awarded Palmyra Concrete Co., Riverton, N. J., \$6,580. Owners, Riverside Township Committee, Riverside, N. J. Concrete paving.

Residence, \$2,700, 1721 South Ninth Street, Camden, N. J. Contract awarded Edw. McGrue, 2044 Fitzwater Street, Philadelphia. Architect, private plans. Owner, Benjamin Hamilton, Camden, N. J. Brick, 2 stories, 15x42 feet, slag roof, pine floors, warm air heat, electric light.

Miscellaneous Construction News

Library Building, Morganstown, W. Va. Owner taking bids, due November 27th, 1929, 2 P. M. Architects, Davis, Dunlap & Barney, 1805 Walnut Street, Philadelphia. Owners, State Board of Control, James Lakin, President, Charlestown, W. Va.

University High School, Morgantown, W. Va. Architects selected. Sketches soon to be started. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, West Virginia University School Board of Control, James S. Lakin, President, Charlestown, W. Va.

Country Residence, Oyster Bay, New York. Architect taking bids due October 26th. Architect, Henry Corse, 420 Madison avenue, New York City. Owner, Edwin Gould, Oyster Bay, New York City. Brick and steel, stone, 2½ stories and basement, 98x28 feet, wing 65x20 feet, hot water heat, electric light, tile, bond, steel casement windows, ornamental iron work, tile roof, oak and yellow pine

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floors, excavation, cast stone, iron and steel, plumbing.

Residence and Garage, Wilmington, Del. Architects taking bids due October 26th. Architects, Stanhope & Bennett, Equitable Building, Wilmington, Del. Owners, Mr. and Mrs. W. C. Hunt, Wilmington, Del. Brick and steel, 2½ stories and basement, irregular (heating reserved), electric light, metal lath, tile, slate roof, oak and yellow pine floors, plumbing.

Breakwater Sea Wall, Delaware Bay, Del. Owners taking bids due November 20th, 2 P. M. Architect, private plans. Owners, Superintendent of Lighthouses, Room 427, Post Office Building, Philadelphia. For protection of Harbor of Refuge lighthouse tower at entrance of Delaware Bay, Del. Information upon application.

Road Work, Delaware. Low bidders. Owners, State Highway Department, Dover, Del. Contract 103B, Newport Bridge approaches. D. E. O'Connell & Sons, Inc., Ridley Park, Pa., \$11,669.

Contract 139, truck storage shed, State Road. M. J. Fidance, 508 North Broome street, Wilmington, Del., \$5,072.

Miscellaneous Contracts Awarded

College Building, Washington, D. C. Contract awarded Turner Construction Co., 1700 Walnut street, Philadelphia. Architect, Chester Oakley, Buffalo, N. Y. Owners, Holy Name College, Washington, D. C. Stone, brick and steel, terra cotta, 3 stories and basement, irregular (plumbing, heating, electric reserved), metal lath, tile, bond, iron stairs, ornamental iron work, slag and tile, cement and yellow pine floors.

Club House, 210 West Sixth street, Wilmington, Del. Contract awarded Joyce & Kerrigan, Wilmington, Del. Architects, Gleeson & Mulrooney, 250 South Broad street, Philadelphia. Owners, Fraternal Order of Eagles, William Hayes, Secretary, Wilmington, Del. General alterations (heating, plumbing) awarded to James Henry, Wilmington, Del.

Shed No. 2, Parkesburg, W. Va. Contract awarded John Pettyjohn, Lynchburg, Va. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Viscose Company, Parkesburg, W. Va. Brick, reinforced concrete, steel, 1 story, slate roof, cement floor.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 17, 1929. Sealed bids will be opened in this office at 3 p. m., November 18, 1929, for repairs and remodeling (except elevator) of buildings at 223-227 Chestnut Street for the U. S. Marine Hospital at Philadelphia, Pa. Drawings and specifications, not exceeding six sets, may be obtained at this office in the discretion of the Supervising Architect by any satisfactory general contractor, and provided a deposit is made of \$15 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

INDUSTRY AS A WHOLE REPORTS GAIN OVER LAST YEAR BUT EIGHT INDIVIDUAL INDUSTRIES SHOW DECLINE

Annual Trade Survey of the National Association of Manufacturers Indicates Slight General Betterment But Numerous Groups Reveal Disturbing Situations at the Present Time

Industry throughout the country at the present moment is just a shade more favorably situated than it was a year ago; but numerous individual industries show distinct recessions from their position last year and present a somewhat disturbing tone to the general picture, according to the annual trade survey of the National Association of Manufacturers, presented at the annual meeting by J. Lewis Benton, general secretary of the organization.

A questionnaire, covering present trade, prospects for winter, comparison with last fall, production, sales quantities and values, employment, wages and labor conditions, was sent to three thousand members of the association the first of this month, with request that the report be made as of October 4. The tabulation was closed October 7 at which time nearly 1,000 replies had been received. The survey covers a compilation of something more than 9,000 detailed answers, and presents the picture of business of the

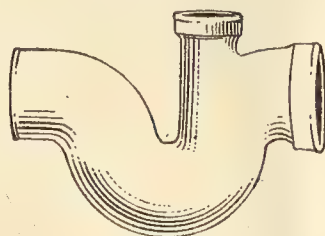
last fortnight.

Taking the industries as a whole, of the companies reporting, 19 per cent class their present business as excellent; 45 percent good; 31 per cent fair and 5 percent poor. Last year they were classified, 17 per cent excellent; 41 per cent good; 34 per cent fair; 6 per cent poor. Prospects for the winter are regarded as excellent by 12 per cent; good by 54 per cent; fair by 30 per cent; poor by 4 per cent; while last year 14 per cent reported excellent; 43 per cent good; 36 percent fair and 6 per cent poor.

Comparing the business done up to this fall with the same period last year, 53 per cent report better returns; 17 per cent less and 30 per cent find no change. A year ago the report was 50 per cent better; 25 per cent less; 25 per cent no change.

Production as compared with last fall is reported increased by 74 per cent. of the companies as against 65 per cent last year; decrease by 26 per cent; increased sales quantities are reported by 73 per cent as against 65 per cent last year; increased sales values by 64 per cent as against 52 per cent last year. Depleted stocks are reported by 14 per cent this year as against 16 per cent last year; normal by 78 per cent this year as against 74 per cent last year; and over by 8 per cent this year as against 10 per cent last year.

Increased employment is reported by 69 per cent of the companies, decreased by 31 per cent; increased wages are re-



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ported by 91 per cent, decreased by 9 per cent, while 23 per cent of the companies report a shortage in skilled workers. One healthful thing is that labor troubles have been practically eliminated, the percentage of companies reporting no strikes being 99.74 and of those reporting strikes .26—less than one-fourth of one per cent.

Going into the individual industries, some unfavorable reflections appear. Twenty-three classifications of the basic industries are covered in the survey. Of these, twelve report gains that in some instances are slight and in other instances might be considered excellent advances. These twelve are clothing; electrical; farm products and foodstuffs; glass; crockery and porcelain; hardware and tools; iron foundries and machine shops; jewelry; leather, machinery, paper and pulp; stationery and printing; miscellaneous. Three industries seem to have just about held their own, building supplies; textiles and metals. Eight industries show a shading off. These are automobile accessories; chemicals; furniture; iron and steel; lumber; paints; oils and varnishes; rubber; ceramics. Lumber and ceramics take a rather gloomy view—not one company of either industry reports present business as excellent, nor does a single one consider prospects for the winter in the excellent category. Furniture and rubber reports show not one company classing prospects for the winter as excellent.

Reports on the individual industries follow:

Automobiles and Accessories

Present trade conditions are reported excellent by ten per cent of the companies; good by 38 per cent; fair by 48 per cent and poor by 4 per cent. This is a shading off from last year, as the same group reported 25 per cent. having excellent business; 40 per cent. good business; 34 per cent fair, and 1 per cent

poor. As to prospects for the winter, 14 per cent report excellent; 55 per cent good; 31 per cent fair and none poor. Production, compared with last fall has increased in 67 per cent of the replies and decreased in 33 per cent. Sales quantities are reported increased by 76 per cent and decreased by 24 per cent; sales values, as compared with last fall, as increased by 59 per cent and decreased by 41 per cent. Stocks on hand are reported low by 8 per cent, normal by 88 per cent and over by 4 per cent. Sixty-eight per cent of the replies report increased employment over last fall and 32 per cent report decreases. Eleven per cent of this group report a shortage of skilled labor, two per cent report a shortage in unskilled. Seventy-seven per cent report slight increases of wages and 23 per cent report small decreases. None have had labor troubles.

Building Supplies

Present trade is reported excellent by 9 per cent; good by 34 per cent; fair by 48 per cent; poor by 9 per cent. This is about even with last reports, 5 per cent reporting excellent; 47 per cent good; 38 per cent fair; 10 per cent poor. Prospects for the winter are regarded excellent by per cent; good, 29 per cent; fair, 38 per cent; poor, 24 per cent. Production compared with last fall is reported increased by 52 per cent, decreased by 48 per cent; sales quantities increased by 53 per cent, decreased by 47 per cent; sales values increased by 41 per cent, decreased by 59 per cent; stocks on hand, low 14 per cent, normal 71 per cent and over 15 per cent. Forty-two per cent report increased employment, 58 per cent decreased; six per cent report shortage in skilled labor; 71 per cent report increased wages, 29 per cent report decreases; no labor troubles.

Ceramics

Present conditions are regarded as excellent by none of those reporting; good

by 50 per cent, fair by 12 per cent and poor by 38 per cent. Prospects for the winter are regarded as excellent by none, good by 38 per cent; fair by 37 per cent; poor by 25 per cent. Production compared with last fall is reported increased by 40 per cent, decreased by sixty per cent; 34 per cent report increased sales quantities, 66 per cent decreases; 17 per cent report increased sales values and 83 per cent decreases; stocks on hand are low in 12 per cent of the replies, normal 63 per cent, over 25 per cent. Forty-three per cent report increased employment, 57 per cent decreases; no labor shortage; wages have had slight increases in 50 per cent. of the companies reporting and decreases in the same percentage; no labor troubles.

Chemicals

Prevailing conditions are pronounced excellent by 17 per cent; good by 62 per cent; fair by 14 per cent; poor by 7 per cent. This also shows a slight falling off as last year the group reported 21 per cent finding excellent business, 58 per cent good, 17 per cent fair and 4 per cent poor. Prospects for the winter are regarded as excellent by 7 per cent; good by 68 per cent, fair by 21 per cent and poor by 4 per cent. Eighty-two per cent report increased production, 18 per cent decreases; 86 per cent report increased sales quantities, 14 per cent decreases; 75 per cent report increased sales values, 25 per cent decreases; stocks on hand are reported normal by 86 per cent, over by 14 per cent. Seventy-eight per cent report increased employment and 22 per cent decreases; no labor shortage; all report increased wages, 6 per cent classed as large increases and 94 per cent as small. No labor troubles.

Clothing

Present conditions are reported excellent by 23 per cent; good by 50 per cent; fair by 27 per cent; poor none. This is a little better than last year's reports which gave 15 per cent as reporting excellent; 50 per cent good; 25 per cent fair and 10 per cent poor. Prospects for the winter are regarded as excellent by 23 per cent; good by 50 per cent; fair by 27 per cent and poor by none. Production compared with last fall is reported increased by 65 per cent, decreased by 35 per cent; sales quantities increased by 66 per cent, decreased by 34 per cent; sales values increased by 50 per cent and decreased by 50 per cent; stocks on hand low by 14 per cent, normal by 81 per cent, over by 5 per cent. Employment is reported increased by 70 per cent, decreased by 30 per cent; while 72 per cent report increased wages and 28 per cent decreases. Twelve per cent report skilled labor shortage; no labor troubles.

Electrical

This industry shows improvement, 40

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per cent of the companies reporting business excellent; 55 per cent good; 5 per cent fair and none poor. Last year those reporting classed business, 16 per cent as excellent; 68 per cent good; 16 per cent fair; none poor. Prospects for the winter are regarded excellent by 30 per cent, good by 60 per cent; fair by 10 per cent and poor by none. Production compared with last fall is reported increased by 87 per cent of the replies, decreased by 13 per cent; sales quantities as increased in 85 per cent of the reports, decreased in 15 per cent; sales values increased in 79 per cent of the replies, decreased in 21 per cent; stocks on hand are reported low in 16 per cent; normal 82 per cent and over in 2 per cent. Increased employment is reported by 80 per cent; decreased 20 per cent; 13 per cent report shortage of skilled labor; 100 per cent report increased wages; no labor troubles.

Farm Products and Foodstuffs

This industry shows improvement. Of those reporting, 20 per cent class present trade as excellent; 49 per cent good; 31 per cent fair and none poor. Last year 10 per cent classed business as excellent; 40 per cent good and 50 per cent fair. Prospects for the winter are classed as excellent by 20 per cent; good by 60 per cent; fair by 20 per cent. Sixty-six per cent report increased production over last fall, 34 per cent decreases; 84 per cent report sales quantities higher, 16 per cent decreases; 67 per cent report increased sales values, 33 per cent decreased; stocks on hand are low in 15 per cent of reports, normal in 85 per cent. Seventy-eight per cent report increased employment and 22 per cent decreases; 25 per cent report labor shortage; all report slight wage increases; no labor troubles.

Furniture

There is a falling off in the general tone. Eleven per cent classify present business as excellent; 34 per cent as good; 55 per cent as fair. Last year the same group reported their conditions as excellent in 25 per cent of replies, good in 30 per cent, fair in 40 per cent and poor in 5 per cent. None put prospects for the winter in the excellent column; 62 per cent class them as good, 38 per cent fair and none poor. Production compared with last fall has increased in 73 per cent of the replies, decreased in 30 per cent; sales quantities have increased in 70 per cent, decreased in 30 per cent; sales values have increased in 67 per cent, decreased in 33 per cent; stocks on hand are low in 6 per cent, normal in 94 per cent. Employment as compared with last fall has increased in 72 per cent of the reports and decreased in 28 per cent; 15 per cent report skilled labor shortage; wages have increased in 90 per cent of the reports and decreased in 10 per cent; no labor troubles.

Glass, Crockery and Porcelain

Forty-two per cent of the companies report present trade as excellent; 25 per cent good; 33 per cent fair; none poor. This is an improvement over last year's reports, as at that time the same group reported, 25 per cent as finding business excellent; 42 per cent good; 25 per cent fair and 8 per cent poor. None of the companies sees excellent prospects for the winter, but 60 per cent class prospects as good; 32 per cent as fair and 8 per cent poor. One hundred per cent report increased production over last fall and increased sales quantities; 75 per cent of them report increased sales values but 25 per cent report decreases; stocks on hand are low in 25 per cent of the reports; normal in 67 per cent; no change in 8 per cent. All of the companies report increased employment; no labor shortage; and all report increased wages; no labor troubles.

Hardware and Tools

Shows improvement. Eighteen per cent of the companies report present trade as excellent; 43 per cent as good; 36 per cent fair; 3 per cent poor. Last year they reported, 17 per cent excellent; 40 per cent good; 40 per cent fair; 3 per cent poor. As to prospects for the winter, 15 per cent report excellent; 49 per cent good; 36 per cent fair. Production has increased in 91 per cent of the reports, decreased in 9 per cent; sales quantities have increased in 92 per cent, decreased in 8 per cent; sales values have increased in 72 per cent, decreased in 28 per cent; stocks on hand are low in 18 per cent, normal in 67 per cent, over in 15 per cent. Eighty-two per cent of the companies have increased employment, 18 per cent decreased; wages have been increased by all of them; 12 per cent report labor shortage; no labor troubles.

Iron and Steel

Shows recession from last year. As to present trade, 11 per cent report it as excellent; 45 per cent good; 42 per cent fair; 2 per cent poor. Last year the group reported 21 per cent excellent; 43 per cent good; 31 per cent fair; 5 per cent poor. Prospects for the winter are considered excellent by 8 per cent; good by 42 per cent; fair by 50 per cent. Production increases are noted by 74 per cent, decreases by 26 per cent; increased sales quantities are reported by 73 per cent, decreases by 27 per cent; increased sales values are seen by 67 per cent, decreased by 33 per cent; stocks are low in 8 per cent of the reports, normal in 84 per cent and over in 8 per cent. Increased employment is reported by 76 per cent, decreased by 24 per cent; increased wages are reported by 87 per cent, decreased by 13 per cent; 8 per cent report shortage of skilled labor; no labor troubles.

Iron Foundries and Machine Shops

Shows strong gain. Present conditions are reported excellent by 25 per cent; good by 34 per cent; fair by 38 per cent; poor by 3 per cent. Last year the same group reported business as, excellent 8 per cent; good 40 per cent; fair 36 per cent; poor 16 per cent. Prospects for the winter are considered excellent by 13 per cent; good by 48 per cent; fair by 36 per cent; poor by 3 per cent. Increased production is reported by 73 per cent, decreased by 27 per cent; increased sales quantities are reported by 70 per cent, decreased by 30 per cent; increased sales values by 70 per cent, decreased by 30 per cent; stocks on hand are low in 6 per cent; normal in 89 per cent; over in 5 per cent. Increased employment is reported by 66 per cent of the companies, decreased by 34; increased wages are reported by 96 per cent of the companies, decreased by 4

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per cent; ten per cent report a skilled labor shortage; 2 per cent report strikes.

Jewelry

Fourteen per cent of the companies report present business excellent; 58 per cent good; 21 per cent fair and 7 per cent poor. Here is another slight gain as the same group last year reported 9 per cent finding business excellent; 48 per cent good; 43 per cent fair. Prospects for the winter are considered excellent by 21 per cent; good by 58 per cent; fair by 21 per cent. Production compared with last fall has increased in 77 per cent of the reports, decreased in 23 per cent; sales quantities have increased in 73 per cent, decreased in 27 per cent; sales values have increased in 82 per cent, decreased in 18 per cent; stocks on hand are low in 7 per cent of the reports, normal in 86 per cent and over in 7 per cent. Small employment increases have been made in 57 per cent of the companies, decreased in 43 per cent; wages have increased in 89 per cent of the companies, decreased in 11 per cent; 15 per cent report a shortage of skilled labor; no labor troubles.

Leather

Twenty-five per cent of the reports class present trade as excellent; 60 per cent good; 15 per cent fair; none poor. This is a gain over last year when the same group reported business as 17 per cent excellent; 25 per cent good; 41 per cent fair; 17 per cent poor. As to prospects for the winter, 15 per cent class them as excellent; 60 per cent as good; 25 per cent as fair; none poor. Production, compared with last fall is reported increased by 85 per cent, decreased by 15 per cent; sales quantities are reported increased by 73 per cent, decreased by 27 per cent; sales values are reported

increased by 63 per cent, decreased by 37 per cent; stocks on hand are low in 15 per cent of the reports, normal in 75 per cent, over in 10 per cent. Employment has been increased by 87 per cent of the companies, decreased by 13 per cent; wages have been slightly increased in 88 per cent, decreased in 12 per cent; 13 per cent report skilled labor shortage; no labor trouble.

Lumber

Shows a shading down. None of the reporting companies classifies present business as excellent; 28 per cent report good; 61 per cent fair; 11 per cent poor. Last year the group reported, 10 per cent excellent; 20 per cent good; 60 per cent fair; 10 per cent poor. None call the prospects for the winter excellent; 22 per cent call them good; 66 per cent fair; 11 per cent poor. Production has increased in 38 per cent of the reports, decreased in 62 per cent; sales quantities have increased in 34 per cent, decreased in 66 per cent; stocks are low in 22 per cent, normal in 72 per cent, over in 6 per cent. Sixty per cent of the companies have increased employment, 40 per cent decreased; all report increased wages; no labor shortage; no labor troubles.

Machinery

Improvement is seen. Of the companies reporting 38 per cent class present business as excellent; 39 per cent as good; 20 per cent as fair; 3 per cent poor. Last year the group reported 25 per cent excellent; 28 per cent good; 36 per cent fair and 19 per cent poor. Prospects for the winter are considered excellent by 20 per cent; good by 63 per cent; fair by 17 per cent; poor by none. Production is reported increased by 89 per cent of the companies, decreased by 11

per cent; sales quantities have increased in 86 per cent of the companies; decreased in 14 per cent; sales values have increased in 81 per cent, decreased in 19 per cent; stocks on hand are low in 18 per cent, normal in 76 per cent, over in 6 per cent. Increased employment is reported by 83 per cent of the companies, decreased by 17 per cent; increased wages are reported by 94 per cent, decreased wages by 6 per cent; 30 per cent report shortage of skilled labor; 4 per cent report shortage of unskilled labor; no labor troubles.

Metals

Sixteen per cent of the reports class present business excellent; 56 per cent good; 20 per cent fair; 8 per cent poor. Here is a slight gain over the excellent-good classes of last year when the group reported 28 per cent excellent; 38 per cent good; 30 per cent fair; 4 per cent poor. Of these companies, 16 per cent report prospects for the winter as excellent; 56 per cent good; 20 per cent fair; 8 per cent poor. Production over last year shows an increase in 70 per cent of the reports, decrease in 30 per cent; sales quantities have increased in 68 per cent, decreased in 32 per cent; sales values have increased in 58 per cent; decreased in 42 per cent; stocks on hand are low in 16 per cent; normal in 80 per cent and over in 4 per cent. Sixty-eight per cent of the companies report increased employment, 32 per cent decreases; 92 per cent report increased wages, 8 per cent decreases; 14 per cent report skilled labor shortage; four per cent report strikes.

Paints, Oils and Varnishes

Shows decline. Seven per cent of the companies class business as excellent; 62 per cent good; 31 per cent fair. Last year the same group reported 17 per cent finding business excellent; 58 per cent good; 25 per cent fair. Prospects for the winter are regarded as excellent by 7 per cent; good by 51 per cent; fair by 42 per cent. Production has been increased by 88 per cent of the companies, decreased by 12 per cent; sales quantities have increased in 72 per cent of the companies, decreased in 28 per cent; sales values have increased over last fall in 86 per cent of the reports, decreased in 14 per cent; stocks on hand are reported normal by all this group. Fifty-eight per cent of these companies have increased employment, 42 per cent decreased; 67 per cent of them have increased wages, 33 per cent decreased; no labor shortage is reported; no labor troubles.

Paper and Pulp

Show improvement. Ten per cent of the companies report business as excellent; 50 per cent good; 35 per cent fair; 5 per cent poor. Last year they reported 6 per cent excellent; 57 per cent good; 34 per cent fair; 3 per cent poor.



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Prospects for the winter are regarded as excellent by 10 per cent; good by 50 per cent; fair by 40 per cent. Production has increased in 80 per cent of the reports, decreased in 20 per cent; sales quantities have increased in 53 per cent; decreased in 47 per cent; sales values have increased in 31 per cent, decreased in 69 per cent; stocks on hand are low in 5 per cent; normal in 85 per cent and over in 10 per cent. Increased employment is reported in 75 per cent of the companies, decreased in 25 per cent; wages have had increases in 84 per cent, decreases in 16 per cent; 3 per cent report skilled labor shortage; no labor troubles.

Rubber

Shows a falling off. Present conditions are reported excellent by 14 per cent; good by 29 per cent; fair by 43 per cent; poor by 14 per cent. This is a much worse showing than last year, as those reporting then classed business at that time, 43 per cent as excellent; 20 per cent good; 10 per cent fair and 4 per cent poor. None of the companies class the prospects for the winter as excellent; 57 per cent class them as good; 43 per cent fair; none as poor. Production compared with last fall is reported increased by 43 per cent, decreased by 57 per cent; sales quantities are reported increased by 60 per cent, decreased by 40 per cent; every company reports sales values as decreased; stocks on hand are low in 29 per cent of the reports, normal in 57 per cent, over in 14 per cent. Employment as compared with last fall has increased in 61 per cent of the companies and decreased in 29 per cent; 50 per cent of the companies report wage increases and a like percentage reports decreases; no labor shortage; no labor troubles.

Stationery and Printing

Improvement is shown. Thirteen per cent of the companies report present trade excellent; 52 per cent good; 26 per cent fair; 9 per cent poor. Last year the same group reported 3 per cent excellent; 71 per cent good; 26 per cent fair. Prospects for the winter are considered excellent by 13 per cent; good by 57 per cent; fair by 30 per cent. Production has been increased by 79 per cent; decreased by 21 per cent; sales quantities have increased in 75 per cent of the reports, decreased in 38 per cent; sales values have increased in 62 per cent, decreased in 38 per cent; stocks on hand are low in 18 per cent, normal in 82 per cent. Eighty per cent of the companies report increased employment, 20 per cent decreased; wages have been increased in 93 per cent of the companies, decreased in 7 per cent; 10 per cent report skilled labor shortage; no labor troubles.

Textiles

Present trade is reported excellent by

8 per cent; good by 43 per cent; fair by 36 per cent and poor by 13 per cent. Last year the group reported 19 per cent excellent; 30 per cent good; 39 per cent fair; 12 per cent poor. As to prospects for the winter, 1 per cent report excellent; 51 per cent good; 37 per cent fair and 11 per cent poor. Increased production is noted by 69 per cent, decreased by 31 per cent; increased sales quantities are noted by 67 per cent, decreased by 33 per cent; increased sales values are reported by 60 per cent, decreased by 40 per cent; stocks are reported low by 25 per cent, normal by 59 per cent and over by 16 per cent. Increased employment is reported by 65 per cent, decreased by 35 per cent; increased wages by 43 per cent, decreased by 57 per cent; 7 per cent report shortage of skilled labor; no labor troubles.

Miscellaneous

Shows slight improvement. Present conditions are reported excellent by 18 per cent; good by 51 per cent; fair by 26 per cent; poor by 5 per cent. Last year the group reported, 17 per cent excellent; 45 per cent good; 36 per cent fair; 2 per cent poor. As to prospects for the winter, 10 per cent report excellent; 5 per cent good; 26 per cent fair; 5 per cent poor. This large group reported last year on this phase, 10 per cent excellent; 51 per cent good; 38 per cent fair; 1 per cent poor. Increased production is reported by 72 per cent, decreased by 28 per cent; increased sales quantities by 75 per cent, decreased by 25 per cent; increased sales values by 65 per cent, decreased by 35 per cent; stocks on hand are low in 14 per cent of the reports, normal in 77 per cent, over in 9 per cent. Increased employment is reported by 71 per cent, decreased by 29 per cent; increased wages are reported by 91 per cent, 6 per cent of whom report large increases and decreases are reported by 9 per cent; 11 per cent report skilled labor shortage; no labor troubles.

A SURVEY OF THE BUILDING FIELD

The Engineering Economics Foundation has just completed a survey of the hotel business and has issued a report that contains some startling information, much of which has a considerable bearing on construction. The survey was started to determine the present status of the hotel business with respect to overbuilding, and developed some specific information and recommendations which, if followed, would result in making that industry more profitable than at present.

Some of the items discovered by the surveyors are:

Between 1920 and 1928 there was a 44 per cent increase in available hotel rooms, making a total of over 1,500,000 rooms

available with only 1,200,000 guests to fill them;

The trend of percentage of occupancy has been steadily declining, the percentage in 1920 being 85.5 and in 1928 it was 67.6. That it requires a 74 per cent occupancy to pay interest on a mortgage and bring a six per cent return on capital invested;

That although there has been a slowing down in the number of new hotels constructed since 1925 the number of rooms per hotel has been steadily increasing;

That there has been no material change in room rates since 1921;

That the number of hotel failures between 1925 and 1928 increased from 82 per year to 112 per year.

The recommendations as summed up by Hollis Godfrey, president of the Engineering-Economics Foundation, contain some pertinent advice that is well worthy of consideration in any branch of the building industry. The recommendations are:

First—That City Hotel Associations whose members are threatened with the over-construction menace conduct a survey similar to the one carried out by the Hotel Association of New York City.

Second—That before any new hotel is financed a detailed and unbiased survey be made by qualified and experienced hotel experts and accountants and that prospective investors be urged to request all such information as this and to consult with their bankers regarding the investment.

Third—That the hotel and allied interests insist upon a stricter enforcement than is at present exercised over the laws regarding the issuance and sale of real estate bonds, to the end that inflated appraisals and speculative securities will be eliminated from hotel financing.

These recommendations are certainly applicable to all building construction and the idea might easily be extended to apartments and office buildings. It would save many a project from failure if the proponents had a source of information that would give them the renting possibilities based on the business obtainable and the need for the contemplated project.

It is not likely nor is it expected that a survey of this sort extended to other branches of the industry will prevent the erection of structures in overcrowded fields any more than will the present survey eliminate the construction of new hotel projects whether needed or not. It is possible that the construction of new projects having newer appurtenances and some new idea of service will make last year's buildings obsolescent. It will, however, provide the investor with a greater security if a better knowledge of the earning power of the project is at hand, thereby bringing a return of finance to this field.—*American Contractor*.

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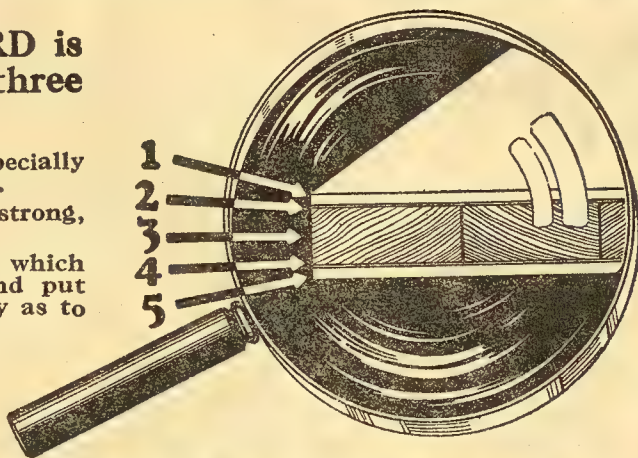
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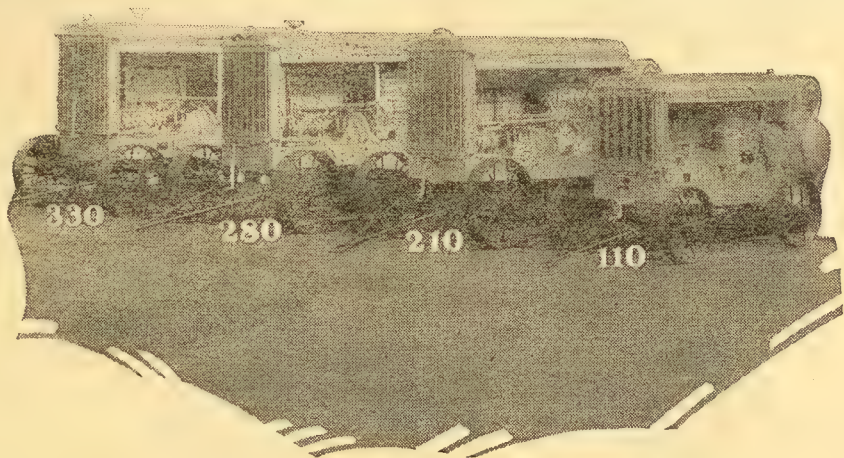
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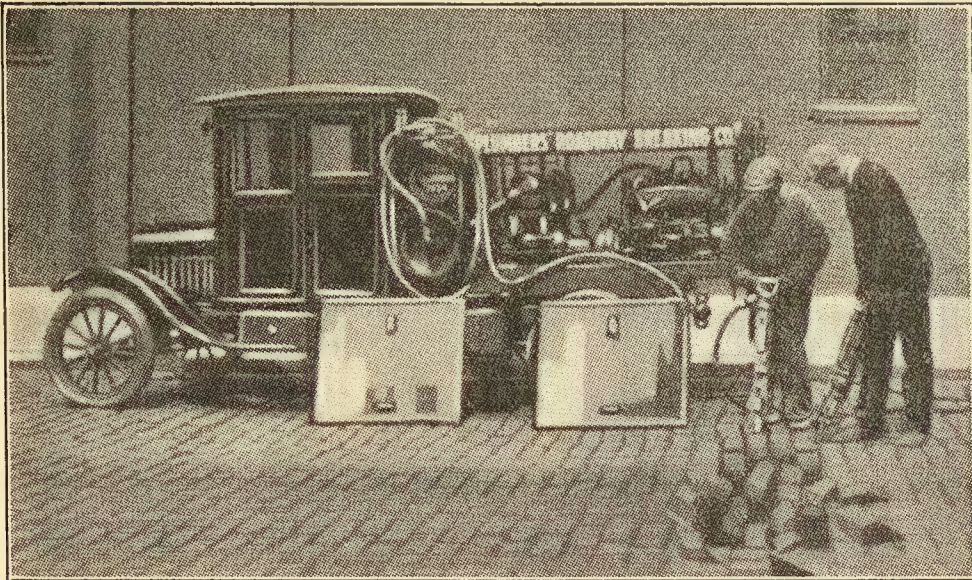
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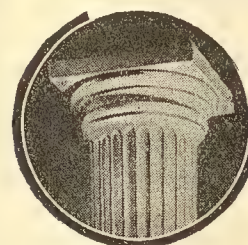
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VOLUME XLIV

Engineering and the Building Trades

PHILADELPHIA

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October 30, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Warehouse, Southeast Corner Twenty-fifth and Federal streets, Philadelphia. Work contemplated. Architect, private plans. Owners, Federal Storage Co., Richard McDevitt, 2413 Federal street, Philadelphia. Brick and stone, 3 stories. Details undecided.

Offices and Garage Building, 1505-07-09 Spruce street, Philadelphia. Competitive plans in progress. Architect, not selected. Owners, Real Estate Assets Corporation, care of Edgar G. Cross, 123 South Broad street, Philadelphia. Brick, steel, limestone, 26 stories, 66x240 feet.

Stores and Offices, 927-933 Chestnut street, Philadelphia. Plans in progress. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Agent Albert M. Greenfield & Co., Bankers' Trust Building, Philadelphia. Brick, stone, steel, 2 stories, 93x124 feet. Demolition of old building.

Store Building, 42 North Ninth street, Philadelphia. Plans in progress. Architect, Herman Kline, 709 Chestnut street, Philadelphia. Owner, David Corn, 6026 Market street, Philadelphia. Brick, steel, cast stone, 3 stories, 22x90 feet, slag roof, electric light, structural steel.

Church and Sunday School (alts. and add.), Northwest Corner Pulaski and Winona avenues, Philadelphia. Plans in progress. Architects, C. W. Bolton & Son, care of Consulting Architect, George E. Merrill, 23 East Twenty-sixth street, New York City. Owners, West Side Presbyterian Church, Rev. W. P. Lee, 5516 Morris street, Philadelphia. Ready for bids in a month.

Church, Ogontz and Wister street, Philadelphia. Ready for bids in a few days. Architects, C. W. Bolton & Son, Schaff Building, Philadelphia. Owners, Faith Reformed Church, Rev. E. E. Lophart, 7233 Ogontz avenue, Philadelphia.

Moose Building, 1310-12-14-16 North Broad street, Philadelphia. Architect taking bids due November 8th, 10.30 A. M. Architect, Carl P. Berger, 500-01 Sydenham Building, 1512 Walnut street, Philadelphia. Owners, Loyal Order of Moose, 1314 North Broad street, Philadelphia. Granite, Indiana limestone, steel, 101x200 feet, concrete floor, brick, tile roof, metal frames, hardwood finishes, terra cotta, marble, tile, elevators, dumb waiters, metal lockers, rolling partitions, refrigeration, vacuum steam heat, fuel oil burner, incinerator. Auditorium seats 2,000.

Building (alts. and add.), 223-27 Chestnut street, Philadelphia. Architect taking bids due November 18th, 3 P. M. Architect, James A. Wetmore, Supervising Architect, Treasury Building, Washington, D. C. Owners, United States Marine Hospital, United States Government, Treasury Department, Washington, D. C. Concrete and cement work, excavation, demolition, brick work, hollow tile, structural steel, composition floors, metal lath, plastering, tile work, magnesite floors, carpentry and mill work, painting and glazing, plumbing, electric work, steam heating. Deposit, \$15.

Store and Residence (alt. and add.), Southeast Corner Ridge avenue and Green Lane, Philadelphia. Owner taking bids due November 5th. Architect, private plans. Owner, Adolph Lang, 6109 Ridge avenue, Philadelphia. Brick and steel, 2 stories and basement, 67x40 feet, electric light, metal lath, tile, marble and terrazzo, rolled steel sash,

slag roof, oak and yellow pine floors, ornamental plastering, sprinkler system, plate glass.

Post Office Building, 6711 York road, Philadelphia. Owner taking bids due as soon as possible. Architect, private plans. Owner, John C. Kimmerle, 2127 North Broad street, Philadelphia. Lessees, United States Government. Brick, cast stone, 1 story and basement, 29x120 feet, hot water heat, electric light, metal lath, rolled steel sash, slag roof, cement floors, plumbing.

Swimming Pool, Chestnut Hill, Pa. Architects taking bids due as soon as possible. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, William Frazier Harrison, Chestnut Hill, Pa. Concrete, 20x50 feet.

Packing House and Abbatoirs, Thirty-sixth and Gray's Ferry road, Philadelphia. Architect taking bids no date set. Architect, C. B. Comstock, 110 West Fortieth street, New York City. Owners, F. G. Voght & Sons, Inc., Thirtieth and Race streets, Philadelphia. Brick and steel, concrete, 3 and 4 stories, irregular, slag roof, cement floors.

Tubercular Hospital and Dining Room Building, Holmesburg, Pa. Low bidders. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Board of Inspectors, Philadelphia County Prison, William H. Heston, Superintendent, Tenth and Reed streets, Philadelphia. Reinforced concrete, Holmesburg granite, steel, 1 story and basement, 87x55 feet, wing 26x44 feet, 1 story and basement, dining room building, 91x48 feet, irregular, metal lath, marble, rolled steel sash, rolled steel skylights, bond, ornamental iron

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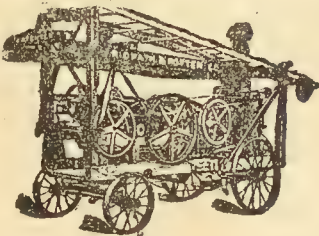
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work, composition and tin roof, cement floors, caulking, brick work, fireproofing, limestone, steel windows, rubber tile floors, kitchen equipment, screens and hardware. McCabe Brothers, Cynwyd, Pa., \$74,900; McCormick-Lenham, Fortieth and Chestnut streets, Philadelphia, \$84,488; heating and mechanical work, N. Connolly, 1404 North Eighteenth street, \$24,965; plumbing, Bulman Brothers, 2501 North Fifth street, Philadelphia, \$5,280; electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$22,773.

Fire Station (alts.), Engine No. 53, Fourth and Snyder avenue, Philadelphia. Low bidders. Architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, City Hall Annex, Philadelphia. Man Camp Construction Co., 1033 Chestnut street, Philadelphia, \$12,488; Conneen Construction Co., 770 South Schuylkill avenue, Philadelphia, \$13,190.

Supplies, etc. Board of Education, Philadelphia. Owners taking bids due November 4th, 1 P. M. Educational supplies, lumber, physical training, shade cloth material, master clock, etc. No school plans will be issued this month.

Supplies, Philadelphia, Pa. Owners taking bids due November 1st, noon, opened in Room 305, City Hall Annex, Philadelphia. Paving gravel, fast hardening cement, granite block, bituminous materials, ready mixed concrete, furnishing and installing refrigerators. Owners, Department of Supplies, 302 City Hall Annex, Philadelphia. Certified check. Specifications and requirements may be obtained at this office.

Contract No. 230, Broad Street Subway, Philadelphia. Low bidders. Owners, Department of City Transit, Thirteenth Floor, City Hall Annex, Philadelphia. Miscellaneous iron work, bronze work, mill work, glazing, brick work, plastering, painting, sheet metal work, fire doors, hardware. Kaufman Construction Co., 26 South Fifteenth street, Philadelphia, \$123,265; H. E. Baton, 1713 Sansom street, Philadelphia, \$141,815.

Repairs to Receiver of Taxes Office, City Hall Annex, Philadelphia. Low bidders. Architect, William S. Covell, City Hall Annex, Phila. Owners, City of Phila., City Hall, Phila. McCormick-Lenham, 40th and Chestnut streets, Philadelphia—A, \$54,982; B, \$11,000. W. J. Haggerty, 34 South Seventeenth street, Philadelphia—A, \$57,166; B, \$9,500.

Residences (2), \$8,000 total. South side Faunce street, West of Claridge street, Philadelphia. Permit issued. Architect, private plans. Owners, Louis Leitenberger Sons, 1905 Cottman street, Philadelphia. Brick, 2 stories, 14x21 feet, 17x23 feet, slag roof, hardwood

and pine floors, hot water heat, electric light. **Garage,** \$10,000. East side Woodstock street, North of Montgomery avenue, Philadelphia. Permit issued. Architect, private plans. Owners, American Stores Co., 424 North Nineteenth street, Philadelphia. Brick, 1 story, 53x92 feet, slag roof, cement floors, electric work.

Residences (20), \$61,000. South side Aldine street, West of Jackson street, Philadelphia. Permit issued. Architect, private plans. Owners, Parkman Development Co., Southwest Corner Aldine and Cottage streets. Brick, 2 stories, 19x36 feet, hardwood and pine floors, slag roof, electric light.

Ice House, \$25,000. Northwest Corner Limekiln Pike and Eighteenth street, Philadelphia. Permit issued. Owners, American Ice Co., 121 North Broad street, Philadelphia. Steel and concrete, 1 story, irregular size.

Gas Station, \$5,000. Southwest Corner Thirty-fourth and Wallace streets, Philadelphia. Permit issued. Owners, American Oil Co., National Bank of North Philadelphia Building, Philadelphia. Brick, 1 story, 16x16 feet.

Laboratory Building, \$3,000. North side Penrose Ferry road, East of Schuylkill River, Philadelphia. Permit issued. Owners, Gulf Refining Co., Girard Point, Philadelphia. Steel, 1 story, 30x45 feet.

Central Bus Terminal, Philadelphia, Pa. Work contemplated. Architect not selected. Owners, Department of Public Safety, Bureau of Police, City of Philadelphia.

Miscellaneous Sewer Work, Philadelphia, Pa. Owners taking bids, due November 6th, noon. Architect, private plans. Owners, Department of Public Works, Bureau of Engr. and Surveys, 913 City Hall Annex, Philadelphia. Schedule A, Branch sewers, Lena St., from Church Lane to Coulter St.; Schedule B, main sewers, Tabor Road, Tacony Creek to Marwood Road; Schedule C, test borings by water jet. Bids opened 12th floor City Hall Annex, Philadelphia. Inquire 1101 City Hall Annex, Philadelphia.

Factory, 50th and Lancaster Avenue, Philadelphia. Architect taking bids, due November 7th, 3 P. M. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Board of Publication, United Lutheran Church, 1228 Spruce Street, Philadelphia. Reinforced concrete, brick, two stories and basement, 98x135 feet, slag roof, cement floors.

Garage, Hamilton and 21st Streets, Philadelphia. Plans in progress. Architects, Abbott Merkt & Co., 178 5th Avenue, New York City. Owners, Gimbel Bros., care of Harry Rusk, 9th and Market Streets, Philadelphia. Brick, concrete slab construction, two stories and basement, 124x305 feet. Ready for general

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bids in January.

Day & Zimmerman, engineers, 112 North Broad Street, Philadelphia, taking bids, due November 5th, for brass bars and sheet lead for use at Eastern State Penitentiary, Gratersford, Pa.

Sales and Service Building, 5537 Ridge Avenue, Philadelphia. Work contemplated. Architect, Charles W. Maslin, 428 Roxborough Avenue, Philadelphia. Owners, Schofield Motor Co., A. Schofield, 5460 Ridge Avenue. Brick and steel, one story and basement, 35x60 feet.

Store and Pool Room, \$18,000, N. E. Cor. Germantown Avenue and Westmoreland St., Philadelphia. Permit issued. Architect, private plans. Owner, H. Braverman, on premises. Brick, two stories, 25x115 feet, slag roof, electric light.

Office (alts.), Griscom and Oxford Pike, Philadelphia. Architect taking bids, due November 1st. Architect, G. Harold Murphy, 4432 Frankford Avenue, Philadelphia. Owners, R. F. Johnson Co., Oxford Pike and Frankford Avenue, Philadelphia. General interior alterations.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Market Street National Bank Building, Northeast Corner Juniper and Market streets, Philadelphia. Contract awarded William Steele & Sons Co., Southeast Corner 15th and Cherry streets, Philadelphia. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Market & Juniper Building Corporation, care of Albert M. Greenfield, Bankers' Trust Building, Philadelphia. Brick, reinforced concrete, steel, granite, 24 stories and basement, 180x58 feet, built-up tile roof, concrete floors, hollow tile, elevators, caulking, waterproofing and dampproofing, architectural terra cotta, bronze work, ornamental iron, casement windows, bond, hollow metal doors, steel sash, tile, marble and terrazzo work, metal lath, electric light, rubber tile floors (heating, ventilating, plumbing, vault doors, refrigerating machinery reserved).

Porch Enclosure. Pulaski and Rittenhouse street, Germantown, Philadelphia. Contract awarded Haverstick & Borthwick, 1505 Race street. Architect, Stewart A. Jellett, 1200 Locust street, Philadelphia. Owners, Managers for Relief and Employment of the Poor, Frank F. McClelland, on premises. Excavation, masonry, brick work, iron work, reinforced concrete, sheet metal work, carpentry and mill work, painting and glazing, hardware, plastering, slag roof, terrazzo, concrete roof slab, fly screens, wall finish, electric, steel sash, plumbing.

Printers' and Engravers' Building, Southeast Corner Seventh and Washington Square, Philadelphia. Contract awarded Wark & Co., 1608 Walnut street, Philadelphia. Architects, Leopold Haup, Robert N. Dippy, 1600 Walnut street, Philadelphia. Owners, Building Advisory Committee, William Sharpless, Chairman, care of S. H. Burbank & Co., 147 North Tenth street, Philadelphia. Brick, limestone, steel, 14 stories and basement, 200x230 feet, steam

heat, electric light, metal lath, tile, kalamein doors, hollow metal doors, ornamental iron work, slag roof, cement floors, elevators.

Loading Station and Stable, Oxford avenue and Bleigh street, Philadelphia. Contract awarded P. Haibach Contracting Co., 1261 North Twenty-sixth street, Philadelphia. Architect, Karl F. Otto, Uptown Theatre Building, Broad and Susquehanna avenue, Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, steel, 1 story and mezzanine, 59x120 feet, 170x188 feet, slag roof, cement floors, plumbing, steam heat, electric light, rolled steel sash.

Signal Tower, Eleventh and Race streets, Philadelphia. Contract awarded Haverstick & Borthwick, 1505 Race street, Philadelphia. Architect, Clark Dillenback, 505 Reading Terminal Building, Philadelphia. Owners, Reading Co., Twelfth and Market streets, Philadelphia. Reinforced concrete, brick and steel, 2 stories and basement, built-up roof, electric light, rolled steel sash, fire doors, hollow metal doors, bond, ornamental iron work, concrete roof deck, cement floors, hollow tile, plumbing, excavation work.

Bakery (alts.), 400 West Penn street, Philadelphia. Contract awarded Fred Elvidge & Son, 5409 Germantown avenue. Architect, Robert Gill, 5600 Germantown avenue, Philadelphia. Owner, Christ Haasis, on premises. Steam heat, electric work, plumbing, tile work, carpentry and mill work, cement and concrete work, brick work, painting and glazing, plastering, metal sash.

Motion Picture Theatre, Point Breeze avenue and Oakford street, Philadelphia. Contract awarded for brick work to Man Camp Construction Co., 1033 Chestnut street, Philadelphia. Architect, L. A. Manfredi, 2228 Mifflin street, Philadelphia. Owners, Dixie Amusement Co., care of architect (note owners'

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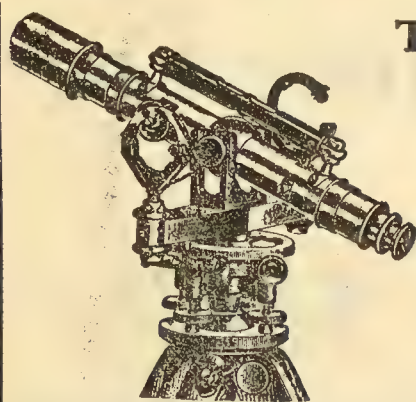
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name). Architect will supervise construction and wants sub-bids due at once.

Residence (alts.), 1006 Spruce street, Philadelphia. Contract awarded H. H. Burrell, 206 South Quince street, Philadelphia. Architects, Bissell & Sinkler, 1520 Locust street, Philadelphia. Owner, Henry Paul Busch, 1006 Spruce street, Philadelphia. Carpentry and mill work, plastering, painting and glazing, cement work, general interior alterations.

Store Building, 4043 Market street, Philadelphia. Contract awarded A. Kirpich, 3211 West Oxford avenue, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Bell Stores, Meadow and McKean streets, Philadelphia. Brick, limestone, 1 story, 20x125 feet, steam heat, electric, slag roof, yellow pine floors.

Building, 75 West Johnson street, Germantown, Philadelphia. Contract awarded Allan Construction Co., 1642 Hunting Park avenue, Philadelphia. Architect, private plans. Owners, Kemerly Institute, care of Fritz Kemerly, on premises. Brick, steel, 21x90 feet, hot wa-

ter heat, electric light, slag roof.

Ice Plant (alts.), \$11,200. Northeast Corner Trenton and Huntingdon street, Philadelphia. Contract awarded Philip Haibach Contracting Co., 1261 North Twenty-sixth street, Philadelphia. Architect, private plans. Owners, Kensington Hygeia Ice Co., on premises. General alterations.

Lodging House (alts.), \$7,500. Northwest Corner Taney and Stiles streets, Philadelphia. Contract awarded D. A. McClelland Co., Drexel Building, Philadelphia. Architect, private plans. Owners, St. Ignatius' House, on premises. General alterations.

Manufacturing Building (repairs), \$4,500. Southeast Corner Second and Erie avenue, Philadelphia. Contract awarded Stofflet & Tillotson, Wesley Building, Philadelphia. Architect, private plans. Owners, Certain-Teed Products Corporation, on premises. General fire repairs.

Gas Station, \$3,000. Northeast Corner Sixty-fourth and Haverford avenue, Philadelphia. Contract awarded A. R. Raff Contracting Co., 1635 Thompson street, Philadelphia. Architect, private plans. Owners, Station Realty Corporation, 5340 Camac street, Philadelphia. Brick, 1 story, 24x15 feet, cement work, electric light.

Storage Building, \$2,500. West side Eighty-first street, South of Eastwick avenue, Philadelphia. Contract awarded Blaw-Knox Co., Widener Building, Philadelphia. Architect, private plans. Owners, General Steel Products Co., Commercial Trust Building, Philadelphia. Iron on iron, 1 story, 30x60 feet.

Storage Building (alts.), \$15,000. 426 Fairmount avenue, Philadelphia. Contract awarded A. B. MacGregor & Son, 1628 Vine street, Philadelphia. Architect, private plans. Owner, H. K. Wampole, 440 Fairmount avenue, Philadelphia. General alterations.

Dye House, \$15,000. Northeast Corner Ashland avenue and Lewis street, Philadelphia. Contract awarded Edward T. Bender, 1135 Wakeling street, Philadelphia. Architect, private plans. Owners, Delta Finishing Co., on premises. Brick, 1 story, 50x120 feet.

Residences (2) and Garage, \$8,500. East side Millett street, North of Glenlock street, Philadelphia. Contract awarded Fred J. Blankenhorn, 3049 Rowland street, Philadelphia. Architect, private plans. Owner, Frank Aquilino, 4711 Ashburne street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hardwood and pine floors, electric light, garage, stone, 1 story, 36x16 feet.

Gas Station, \$5,000. South side Chestnut street, West of Forty-sixth street, Philadelphia. Contract awarded Edward C. Haldeman, 3438 North Twentieth street, Philadelphia.

Architect, private plans. Owner, A. Leibowitz, 1202 North American Building, Philadelphia. Brick, 1 story, 16x18 feet.

Water Tank, \$4,750. Southeast Corner Sixty-eighth and Greenway avenue, Philadelphia. Contract awarded Chicago Bridge & Iron Co., 1015 Chestnut street, Philadelphia. Owners, American Cigar Co., on premises.

Gas Station, \$3,000. Southeast Corner Martin's Mill road and Knorr street, Philadelphia. Contract awarded A. Raymond Raff Co., 1635 West Thompson street, Philadelphia. Architect, private plans. Owners, Station Realty Co., 5340 North Camac street, Philadelphia. Brick, 1 story, 24x15 feet.

Manufacturing Building, \$2,000. West side Blabon street, North of Hunting Park avenue, Philadelphia. Contract awarded William Steele & Sons Co., 124 North Fifteenth street, Philadelphia. Owners, George W. Blabon Co., Twenty-first and Hunting Park avenue, Philadelphia. General alterations.

Garage, \$10,000. South side Erie avenue, West of B street, Philadelphia. Contract awarded F. V. Warren Co., 1913 Arch street, Philadelphia. Architect, I. S. Townsley, 1913 Arch street, Philadelphia. Owners, Hess Bright Manufacturing Co., Front and Erie Avenue, Philadelphia. Brick, 1 story, 169x36 feet, slag roof, cement floors.

Church (add.), \$5,000. Northeast Corner Tudor and Crispin streets, Philadelphia. Contract awarded Thomas C. Trafford, 2339 North Eighteenth street, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Mayfair United Presbyterian Church, Rev. T. Pollock, 5034 Hazel avenue, Philadelphia. Stone, 1 story add., 16x45 feet, electric light.

Shop, \$2,500. South side Upland Way, South of Lebanon avenue, Philadelphia. Contract awarded Brann & Stuart Co., Commercial Trust Building, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Iron on iron, 1 story, 20x64 feet.

Garage, \$2,500. 1306 Sansom street, Philadelphia. Contract awarded Albert N. Lowden, 734 South Fiftieth street, Philadelphia. Architect, private plans. Owner, Allen Crane, on premises. Brick, 1 story, 16x60 feet, slag roof, cement floors, electric work.

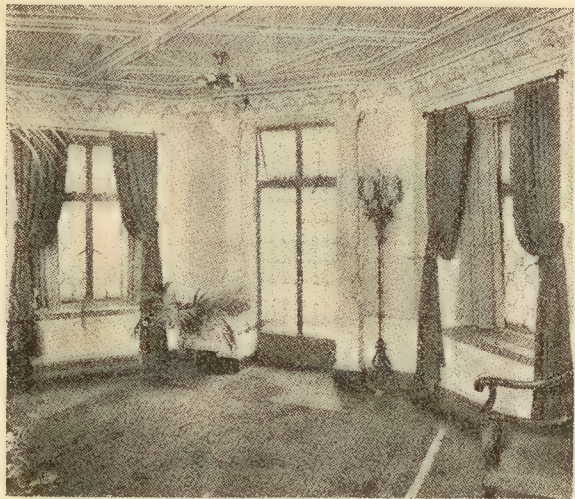
Bridges, etc. Philadelphia, Pa. Contracts awarded. Schedule B, widening bridge at Wyoming avenue and Roosevelt Boulevard, over North Penn Branch, Hock Contracting Co., Allentown, Pa., \$92,410. Turn borings, Penrose avenue, Schuylkill River, Pennsylvania Terminal Improvement, Sprague & Henwood, Inc., care of owners, \$21,321. Breyer road, inlets, Leva Brothers, 104 West Gale

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street, Philadelphia, \$2,651. Kemble avenue, laterals, etc., Leva Brothers, 104 West Gale street, Philadelphia, \$2,290.50. Cottman street, from Wissinoming to East of Eugene street, Philadelphia, Yetman & Garafola, Real Estate Trust Building, \$40,695. Van Dyke street, from Paul to Little Tacony Creek, McCool Construction Co., 5033 Duffield street, Philadelphia, \$4,127.50. Dark Run Lane, Philadelphia, Vincent Jaffola, Pennsylvania Building, Philadelphia, \$2,300.

Contract No. 224, underground cable system, Philadelphia. Contract awarded W. V. Pangborne, 1927 West Montgomery avenue, Philadelphia, \$111,448.80. Owners, Department of City Transit, Thirteenth Floor, City Hall Annex, Philadelphia.

Repaving Broad Street, Kater to South Penn Square, Contract No. 197, and Pine street, Broad to Thirteenth; Thirteenth street, from Pine to Lombard street, Philadelphia. Contract awarded Mazzola & Marano, 739 South Seventh street, Philadelphia, Pa., \$172,879.50.

Contract No. 229, Broad Street Subway, Philadelphia. Contract awarded John Borden & Bro., 637 North Nineteenth street, Philadelphia, Pa., \$17,608.50. Owners, Department of City Transit, City Hall Annex, Philadelphia.

Store and Apartment (alts. and add.), S. E. corner Harrison and Oaklyn Streets, Philadelphia. Contract awarded Rush Bros., 4682 Darrah Stret, Philadelphia. Architect, G. Harold Murphy, 4432 Frankford Avenue, Philadelphia. Owner, Harry Zeisig, care of architect. Brick, 2 stories, 17x32 feet, slag roof, pine and oak floors, hot water heat, electric light.

Office Building, N. E. corner Venango and "F" Streets, Philadelphia. Contract awarded J. Marcellus & Co., 1231 North 51st Street, Philadelphia. Architect, private plans. Owners, American Aniline & Extract Co., 141 N. Front Street, Philadelphia. Brick, steel, one story and basement, 90x72 fet, hot water heat, electric light, slag roof, concrete floors.

Bakery (alts.), \$12,900, 963-71 North 9th Street, Philadelphia. Contract awarded Friend-Reiff Co., Norristown, Pa. Architect, Henry P. Friend, Norristown Penn Trust Building, Norristown, Pa. Owners, Mrs. Smith's Home-Made Pies, Inc., Pottstown, Pa. General alterations.

Plumbing Shop (alts.), \$3,500, 5106 German-town Avenue, Philadelphia. Contract awarded W. E. D. Welch, 50 North 5th Street, Philadelphia. Owners, Fleck Bros. Co., 50 North 5th Street, Philadelphia. General alterations.

Residence (add.), \$2,300, 3054 Richmond Street, Philadelphia. Contract awarded S. Pietrykowski, 3414 Richmond Street, Phila-

delphia. Architect, private plans. Owners, Mendel & Fannie Hahn, on premises. Addition to residence.

Pennsylvania Construction News

School Building and Gymnasium, Darlington, Pa. Work contemplated. Preliminary sketches drawn. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owners, Sleighton Farms School for Girls, Darlington, Pa., E. Wallace Chadwick, Pennsylvania Bank Building, Chester, Chairman of Building Committee.

Apartment House, Wayne, Pa. Work contemplated. Architect, not selected. Owners, Syndicate, care of Harry Fried, Seville Theatre, Bryn Mawr, Pa. Brick and steel, 4 stories and basement.

Grade School, Chester, Pa. Plans in progress. Architect, Clarence Brozier, Chester, Pa. Owners, School District of Chester, Pa., J. C. Taylor, President; Charles E. Sanderson, Secretary, Chester, Pa. Architect selected.

Hotel and Stores (alts.), Seventh and Welsh streets, Chester, Pa. Plans in progress. Architect, C. W. Brazier, Crozier Building, Chester, Pa. Owner, Senator John McClure, care of architect. General interior alterations.

Warehouse, Lancaster, Pa. Plans in progress. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Lancaster Storage Co., 342 North Queen street, Lancaster, Pa. Fireproof, 6 stories, 35x65 feet, slag roof, concrete floors, elevators, electric light, steel sash, fire doors.

Country Club, Reading, Pa. Architect taking revised bids. Architect, Harry Maurer, 234 North 5th street, Reading, Pa. Owners, Reading Country Club, Philadelphia road, Reading, Pa. Stone, 2½ stories, 160x80 feet, slate roof, tile, marble, steam heat, electric light, steel sash, sprinkler system, kitchen equipment, septic tanks, ornamental iron, brass pipe, incinerators.

Residence (alts. and add.), Elkins Park, Pa. Plans in progress. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, William Rosenwald, care of Sears-Roebuck Co., Roosevelt Boulevard, Philadelphia. Consists of general interior alterations and new addition.

Stores and Apartments (4), Wayne, Pa. Plans in progress. Architect, Solomon Kaplan, 10 South 18th street, Philadelphia. Owner, Harry Fried, care of Seville Theatre, Bryn Mawr, Pa. Brick, cast stone, steel, 2 stories and basement, 17x55 feet each.

Residence (alts.) and Garage, Yardley road,

Yardley, Pa. Plans in progress. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, M. Huston Dixon, Westover, Pa. Brick, 2 stories, 20x30 feet,

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slate roof, oak floors, electric work, tile work, (2) fireplaces.

Residence and Garage, Chauffeur's Quarters, \$500,000. Neshaminy, Pa. Plans in progress. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, George F. Tyler, Elkins Park, Pa. Stone, 2½ stories and basement.

Residence and Garage, Wynnewood, Pa. Plans in progress. Will take bids in spring, 1930. Architect, Albertson F. Knipe, 1516 Summer street, Philadelphia. Owner, J. Bernard McGovern, Wynnewood, Pa. Stone and frame, 2½ stories and basement.

Office Building, Wyndmoor, Montgomery County, Pa. Revised plans completed. Architects ready for bids in a few days. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Foote Mineral Co., 1609 Summer street, Philadelphia.

Residence and Garages (3), Wyndmoor, Pa. Plans completed. Owners ready for sub-bids October 30th. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Ashby & Barber, Vernon Building, Germantown, Pa. Stone and frame, brick and frame, 2½ stories and basement, 26x46 feet, wing 26x30 feet, garages, 21x21 feet, hot water heat, electric light, metal lath, tile, shingle roof, oak and yellow pine floors, plumbing.

Ward Buildings, Nos. 1 and 2, Dining Room, Nos. 7, 8, 9, 10. Harrisburg, Pa. Owners will be ready for bids about middle of November. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Commonwealth of Pennsylvania, State Hospital, Harrisburg, Pa. Brick, steel, buildings 1 and 2, second story add., buildings 7 and 8, alterations; buildings 9 and 10, 1 story and basement, 300x100 feet, 85x33 feet, slate roof, linoleum floors, hollow tile, metal window guards, bond, steel sash, tile work, metal lath, electric light, heating extension.

Store Room and Workshop, Ephrata, Pa. Owners taking sub-bids. Architect, H. Raymond Heckman, Baer Building, Reading, Pa. Owners, E. F. Groff & Son, Ephrata, Pa. Cement block and steel, 2 and 1 stories, 45x117

feet, composition roof, pine and cement floors, steam heat, electric light, steel sash and skylights.

County Almshouse, \$1,000,000. York, Pa. Owners about ready for bids. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owners, York County Poor District, care of Charles Frey, York, Pa. Brick, limestone, reinforced concrete, steel, 1, 2 and 3 stories; 455x200 feet, slate and copper roof, reinforced concrete, terrazzo and linoleum floors, safety treads, roof ventilators, metal window guards, waterproofing and dampproofing, incinerators, wrought iron pipe, brass pipe, ornamental iron work, iron stairs, bond, steel sash, metal lath, electric light.

Residence and Garage, Irvington road, Drexel Park, Pa. Owner will build and is taking sub-bids. Architect, private plans. Owner, Walter L. Davenport, 1519 North Fifty-eighth street, Philadelphia. Brick, 2½ stories, 45x45 feet, hot water heat, electric light, tile, shingle roof, hardwood floors.

Equipment for School, Cornwells, Pa. Architect ready for bids due November 7th, 1 P. M. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Cornwells School Board, Cornwells, Pa. Certified check, 5 per cent, must accompany each bid.

Stores and Apartments, 38 North Lansdowne avenue, Lansdowne, Pa. Architect taking revised bids due as soon as possible. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, Joseph S. Rudolph, 311 North Lansdowne avenue, Lansdowne, Pa. Brick, granite, steel, 2 stories and basement, 94x44 feet, slag roof, electric light, metal lath, tile, marble, rolled steel skylights, ornamental iron work, area grating, demolition, excavation, cinder concrete block, mineral flooring, painting and glazing (heating and plumbing reserved).

Service Station and Warehouse, Fifth and Oley streets, Reading, Pa. Architects taking bids due November 4th. Architects, Muhlenberg Brothers, 113-A South Fourth street, Reading, Pa. Owners, Firestone Tire & Rub-

ber Co., Akron, Ohio. Brick, 2 stories, 68x70 feet, store front, electric light, heating, plumbing, elevators, wood partitions, concrete floors.

Residence and Garage, \$15,000. Springfield road and Schuyler avenue, Springfield, Pa. Owner will build and is taking sub-bids. Architect, private plans. Owner, I. W. Weaver, Springfield, Pa. Stone and frame, 2½ stories, 30x45 feet, hot water heat, electric light, tile, shingle roof, hardwood floors.

Residence and Garage, Fairville, Pa. Architect taking general bids. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Richard D. Morgan, care of architect. Stone and steel, 2½ stories and basement, 123x34 feet, wing 72x31 feet, garage, 130x22 feet, shingle roof, oak and yellow pine floors, cement floors, metal lath, tile, bond, ornamental iron work. H. Berkley Hackett, Engineer, Ledger Building, Philadelphia, taking bids on plumbing, heating and electric.

Furnishing and Installing Complete, one folding partition in the Ridley Park School, Ridley Park, Pa. Owners taking bids due November 5th, 7 P. M., Tome School, Ridley Park, Pa. Architect, H. W. Newberg, Engineer, 416 Harrison street, Ridley Park, Pa. Owners, Ridley Park School District, Mrs. H. M. Davis, Secretary, Ridley Park, Pa. Deposit, \$5, refunded. Certified check, \$150.

Farm Show Building and Coliseum, Eleventh and Maclay streets, Harrisburg, Pa. Low bidders. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owners, State of Pennsylvania, Department of Property and Supplies, Frank St. Clair, Jr., Chief Engineer, Harrisburg, Pa. Reinforced concrete, brick and steel, 1 story and mezzanine and basement, 676x788 feet, wood roof deck, built-up roof, cement floors, hollow tile, roof ventilators, caulking, metal lath, rolled steel sash, kalamein doors, hollow metal doors, bond, iron stairs, ornamental iron work, excavation, hardware, painting, glazing, metal toilet partitions, metal partitions, hand power elevator, kitchen equipment, acoustic treatment, quarry tile floors, gypsum roof, granite stalls. Hughes-Foulkrod, 1505 Race street, Philadelphia, \$877,350. Heating, Huffman-Wolfe Co., 11 West Rittenhouse street, Philadelphia, \$118,500. Electric, Conestoga Electric Co., Lancaster, Pa., \$107,000. Plumbing, D. L. Rathbone, New D. A. R. Building, Washington, D. C., \$109,391.

Residence and Garage, Moylan, Delaware County, Pa. Low bidder: N. W. Bryan, 10 South Eighteenth street, Philadelphia. Architect, E. Kenny Crothers, Media, Pa. Owner, Edward F. Beaty, Moylan, Pa. Stone, clapboard, 2½ stories, 34x90 feet, shingle roof, hot water heat, electric light, oil burner, tile work, oak and yellow pine floors.

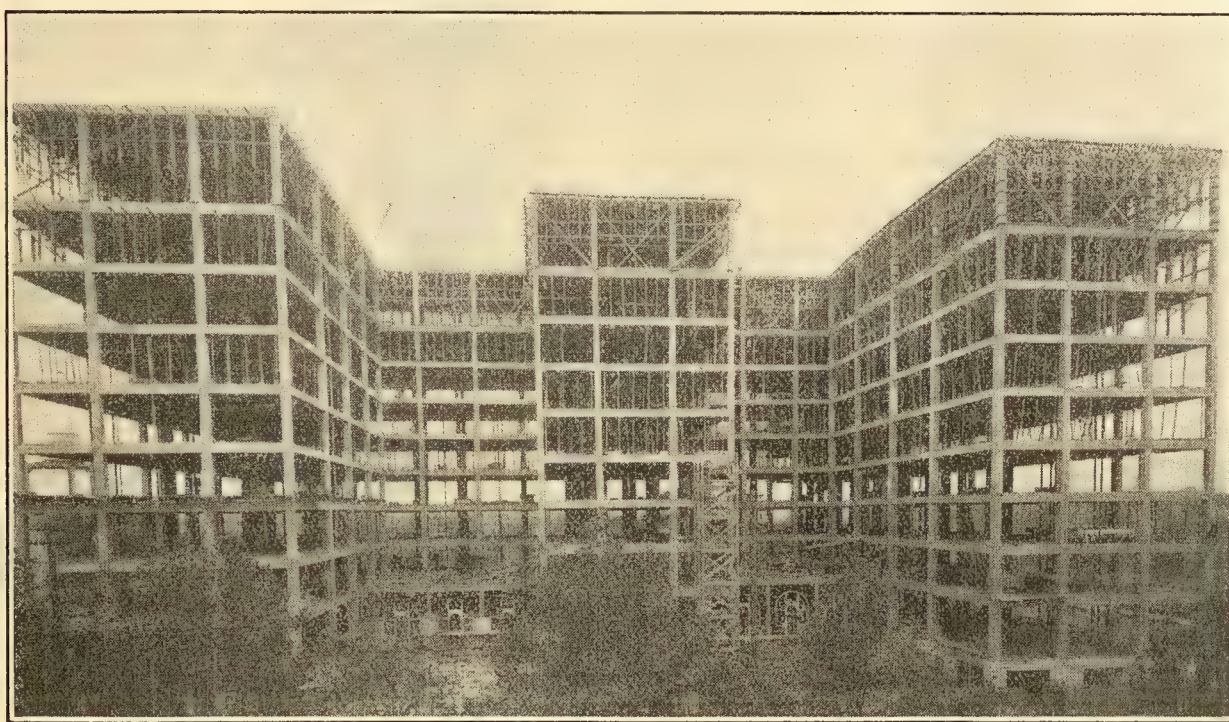
Thirty 1-inch Steel Water Inlets, 2 Clusters of 7 Piles. Eddystone, Pa. Work contemplated. Architect, private plans. Owners, General Steel Castings Corporation, Eddystone, Pa. Work contemplated pending approval Board of Commissioners of Navigation.

Slag Roof, Roosevelt School, Norristown, Pa. Owners taking bids, due November 5, 4 P. M. Owners, School District of Norristown, Harold K. Kratz, Secretary. New slag roof for old portion of school. Certified check 5%.

Residence Development, Abington, Pa. Work contemplated. Architect-owner, N. L. Traub, Jenkintown, Pa. Stone, 2½ stories, various sizes.

Factory (alts. and add.), Bristol, Pa. Architects taking bids, due as soon as possible. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Trenton Emblem Co., 120 Hamilton Avenue, Trenton, N. J. Brick and steel, one story, 26x40 feet, slag roof, cement floors.

Residence and Garage, Fairville, Pa. Archi-



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teet taking bids, due October 31st. Architect, R. Brognard Okie, 306 South Smedley Street, Philadelphia. Owner, Richard D. Morgan, care of architect. Stone, steel, 2½ stories and basement, 123x34 feet, wing 72x31 feet, garage 130x22 feet, shingle roof, oak and yellow pine floors, cement floors, metal lath, tile, bond, ornamental iron work.

Testing Laboratory Building, Harrisburg, Pa. Architects, Lawrie & Green, Third and Foster Streets, Harrisburg, Pa. Owners, Department of Highways, Commonwealth of Pennsylvania. James L. Stuart, Secretary, Harrisburg, Pa. Reinforced concrete, brick, steel, 2 stories and basement, 150x72 feet, slag roof, concrete deck, cement floors, hollow tile, caulking, waterproofing, architectural terra cotta, coping, caststone, bond, kalamein hollow metal doors, steel sash, metal lath, excavation, mastic floors, linoleum, steel lockers, vitrolite work, metal stairs, dumbwaiter, sandstone. Plumbing, heating, electric separate. Roof ventilators reserved. Low bidders: Fred DeGroot, Harrisburg, Pa., 269 Pepper Street, \$114,500; heating, J. H. Bowman, Penbrook, Pa., \$10,470; electric, C. M. Davis & Son, Harrisburg, Pa., \$7,700; plumbing, Herre Bros., Harrisburg, Pa., \$24,260.

Manse, West Chester, Pa. Architect taking sub-bids and will supervise construction. Architect, Thos. P. Minnich, West Chester, Pa. Owners, First Presbyterian Church of West Chester, Pa. General repairs, new bath room and plumbing work.

Changing Heating System, Harrisburg, Pa. Owners taking bids, due November 15th. Architects, Department of Property and Supplies, Harrisburg, Pa. Owners, Commonwealth of Pennsylvania, Frank St. Clair, Engineer of Construction, B. E. Taylor, Secretary, Harrisburg, Pa. Deposit \$25.00 refunded. Certified check \$250.00, bond.

Road Work, Pennsylvania. Low bidders. (October 24th letting.) Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, State House, Harrisburg, Pa.

Potter County, R-104, Sec. 1, Eulalia and Homer Townships, Coudersport Borough. Grading and drainage, (3) bridges. A. W. Hinaman Construction Co., Williamsport, Pa., \$107,607.

Mifflin County, R-470, Granville Township. Grading and drainage. N. C. Rauch, Northumberland, Pa., \$91,574.

Carbon County, R-550, A-6693, Sec. 2, Mauch Chunk and Penn Forest Townships. One course reinforced concrete, (2) bridges. McInerney & McNeal, Easton, Pa., \$252,771.

Montgomery County, Lower Moreland Township, R-362, Sec. 2, A-5576, Bryn Athyn Borough. One course reinforced concrete. George I. Thompson Company, Clearfield, Pa., \$138,128.

Perry County, R-191, Sec. A, Tuscarora and Saville Townships. Grading and drainage, (2) bridges. L. M. Hutchinson, Altoona, Pa., \$58,091.

Juniata County, R-45, Spruce Hill and Turbett Townships. Grading and drainage, (1) bridge. Charles B. Elder, Renovo, Pa., \$74,736.

Crawford County, R-258, Cambridge and Venango Townships. (2) Bridges over Little Conneattee Creek and over Big Conneattee Creek. One course reinforced concrete, excavation, reinforced concrete, steel. Roberts Supply Co., Lima, Ohio, \$83,556.

Blair County, R-53, Sec. R-2, Juniata Township. Bridge over Gap Run. Reinforced concrete, steel, excavation. Clark Brothers, Cherry Tree, Pa., \$29,159.

Washington County, R-545, Sec. 3A, Cross Creek Township. Bridge over south fork of Cross Creek. Excavation, concrete. Louis Costa, Dickerson Run, Pa., \$7,990.

Road Work, Pennsylvania. Low bidders. (October 25th letting.) Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Adams County, R-399, Reading Township, East Berlin Borough. Bridge over Conewago Creek. Excavation, concrete, steel, macadam surface course. Smith & Fenstermacher, Allentown, Pa., \$54,369.

Adams County, R-375, Cumberland and Mt. Joy Townships. Bituminous surface treated macadam surface course, three bridges. Bester Long & Co., Hagerstown, Md., \$189,395.

Westmoreland County, R-302, Sec. 5, A-6857, Ligonier and Fairfield Townships. One course reinforced concrete, grading and drainage, two bridges. Adam Erdemiller, New Alexandria, Pa., \$172,109.

Huntingdon County, R-192, Sec. 2, Cass and Union Townships, Cassville Borough. Grading and drainage. One bridge. Penbrook Drayage & Supply Co., Harrisburg, Pa., \$92,324.

Pike County, R-334, R-220, Lackawaxen Township. Bituminous surface treated macadam surface course. Lane Construction Co., Meriden, Conn., \$158,774.

Carbon County, R-163, Sec. 3, Lower Townmensing and Franklin Townships, Parryville Borough. One course reinforced concrete, grading and drainage, four bridges. Enterprise Construction Co., Bankers' Trust Building, Philadelphia, \$158,629.

Schuylkill County, R-185, Rush and Kline Townships. One course reinforced concrete. Rudolph & Delano, Tamaqua, Pa., \$56,921.

Huntingdon County, R-261, Sec. 2, Oneida Township. Grading and drainage, seven bridges. Penbrook Drayage & Supply Co., Harrisburg, Pa., \$86,559.

Sullivan County, R-321, Sec. 2, Shrewsbury Township, Eaglesmere Borough. Bituminous surface treated macadam surface course. Lane Construction Co., Meriden, Conn., \$196,738.

Adams County, R-126, Mt. Pleasant and Oxford Townships. Bridge over Little Conewago Creek; extensions to bridge over Swift Run.

Excavation, borrow, concrete, steel. Paul R. Hostetter Co., York, Pa., \$61,647. (Also Straban Township.)

Bedford County, R-46, Sec. 3-A, Hopewell Township. Bridge over Yellow Creek. Excavation, concrete, steel bars, structural steel. Whittaker & Diehl, Harrisburg, Pa., \$25,796.

Mercer and Trumbull Counties, A-6220, South Pymatuning Township, Pa., Hartford Township and Orangeville Borough, Ohio. One course reinforced concrete, two bridges. Young & Keeseaker, Youngstown, O., \$33,839.

Northampton County, R-563, A-6780, Upper Nazareth and Lower Nazareth Townships. One course reinforced concrete, grading and drainage, one bridge. H. S. Shaffer, Nazareth, Pa., \$97,139.

Pennsylvania Contracts Awarded

Bank (alts. and add.), Fourth and Market streets, Chester, Pa. Contract awarded William Provost, Jr., Chester, Pa. Architect, Clarence Brazier, Crozier Building, Chester, Pa. Owners, Delaware County National Bank and Pennsylvania Title & Trust Company, Chester, Pa. Brick and steel, 1 story, mezzanine and basement, 40x62 feet, steam heat, electric light, metal lath, bond, ornamental iron work, slag roof, cement floors.

Gymnasium and Swimming Pool, Academy Manor, Harrisburg, Pa. Contract awarded C. W. Strayer, State street, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Harrisburg Academy, care of Dr. Brown, Academy Manor, Harrisburg, Pa. Brick, steel, 2 stories, 135x64 feet, slate roof, maple floors, roof ventilators, va-

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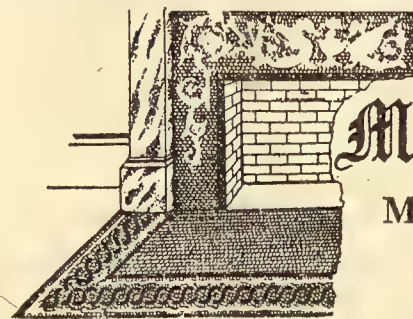
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Residence, Camp Hill, Pa. Contract awarded O. L. Armiger, 1507 South Cameron street, Harrisburg, Pa. Architects, Jamison & Minich, 23 North Third street, Harrisburg, Pa. Owner, Carl Deen, 25 North Twenty-fourth street, Camp Hill, Pa. Brick, timber, 2 stories, 20x60 feet, slate roof, maple floors, flagstone, steel casement windows, tile work, oil burner, electric light.

Warehouse, \$200,000. East side Second street, opposite Vine street, Harrisburg, Pa. Contract awarded J. H. Wickersham, Appel Building, Lancaster, Pa. Engineer, J. H. Wickersham, Appel Building, Lancaster, Pa. Owners, C. R. Kinney Co., Inc., 225 West Thirty-fourth street, New York. Reinforced concrete, steel, 4 stories, 128x232 feet, slag roof, concrete floors, electric light.

Residence, Reading, Pa. Contract awarded James & Whitman, Reading, Pa. Architect, M. B. Dechant, 632 Washington street, Reading, Pa. Owner, J. Russell Weidner, 1132 North Eleventh street, Reading, Pa. Stone, 1 story and basement, 80x40 feet, tile roof, oak floors, hot water heat, electric light, tile work, steel casement windows, area gratings, wrought iron pipe.

Residence (add. and alts.), Freidensburg, Pa. Contract awarded Wallace C. Fritz, 302 North Eleventh street, Reading, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owner, H. C. Guenther, 1449 North Tenth street, Reading, Pa. Stone, 2 stories, 15x20 feet, thatched roof, cork and rubber tile floors, ornamental iron work, tile work, electric work, hot air heat.

Aquarium and Green House, Villa Nova, Pa. Contract awarded Campitelli Brothers, Nineteenth street, near Morris street, Philadelphia. Architect, L. A. Manfredi, 2228 Mifflin street, Philadelphia. Owner, Warren C. Graham, Fox Building, Philadelphia. Frame, 2 stories, 10x12 feet, wood shingle roof, concrete footing, steel sash, electric work, gas steam heat.

Garage (alts.), Rosemont, Pa. Contract awarded C. C. Eddleman, Presser Building, Philadelphia. Architect, Ralph E. White, 1518 Walnut street, Philadelphia. Owner, William F. Morris, Rosemont, Pa. Cement floors, carpentry and mill work, painting, plastering, stone masonry, brick work, tin roof.

Residence and Garage, Huntingdon Valley Country Club Tract, near Willow Grove, Pa. Contract awarded D. W. Sperry, Jefferson Building, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Elkins-Shelbe Co., Jenkintown, Pa. Stone, 2½ stories, 102x48 feet, hot water heat, metal lath, shingle roof, oak and yellow pine floors, electric light, plumbing.

Residence and Garage (alts. and add.), Cynwyd, Pa. Contract awarded D. Ridgeway Evans, Cynwyd, Pa. Architect, Andrew C.

Borzner, 717 Walnut street, Philadelphia. Owner, John N. Young, Cynwyd, Pa. General alterations, plumbing work, tile.

Residence and Garage, School Lane, Lancaster, Pa. Contract awarded Herman Wohlsein, Woolworth Building, Lancaster, Pa. Architect, M. R. Evans, 10 South Queen street, Lancaster, Pa. Owner, G. D. Blaisdell, 73 Spencer street, Lancaster, Pa. Brick, 2½ stories, 28x30 feet, slate roof, hardwood floors, tile work, electric light.

Missionary Home, Lancaster, Pa. Contract awarded W. B. Aierstuck, 34 East Chestnut street, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Women's Missionary Society of Eastern Synod, Reformed Church, care of architect. Brick, 2½ stories, 35x80 feet, slate roof, linoleum floors, hot water heat, electric light, tile work, steel sash.

Fire Repairs (Barn), Orelan, Pa. Contract awarded Haverstick & Borthwick, 1505 Race street, Philadelphia. Architect, private plans. Owners, Sandy Run Country Club, Orelan, Pa. General fire repairs.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Butler County, R-246, Sec. 1, Lancaster and Muddy Creek Townships, Portersville Borough. One course reinforced concrete. J. C. Devine, Meadville, Pa., \$313,24.03.

Bedford County, R-356, Sec. 3, Londonderry Township, Hyndeman Borough. One course reinforced concrete, (1) bridge. J. M. Hutchinson & Narehood Brothers, Altoona, Pa., \$124,716.49.

Montgomery County, R-719, A-6444, 6446, Lower Merion Township. One course reinforced concrete. Golden Contracting Co., Otis Building, Philadelphia, \$121,323.24.

Cambria County, R-54, Spur 1, Cambria and Blacklick Townships. One course reinforced concrete, (1) bridge. M. Bennett & Sons, Indiana, Pa., \$382,934.10.

Potter County, R-526, Sec. 1, Ulysses Township. Grading and drainage, (4) bridges. Ohio Construction & Supply Co., Youngstown, O., \$87,668.93.

Beaver County, R-347, Sec. 2, Franklin Township. One course reinforced concrete. Holmes Construction Co., Wooster, Ohio, \$312,534.15.

Erie County, A-6520, Northeast Township. One course reinforced concrete, (1) bridge. J. D. Devine Co., Meadville, Pa., \$76,253.83.

Farm Show Building and Colliseum, 11th and Maclay Streets, Harrisburg, Pa. Contracts awarded. Architects, Lawrie & Green, 3rd and Foster Streets, Harrisburg, Pa. Owners, State of Pennsylvania, Department of Property and Supplies, Frank St. Clair, Jr., Chief Engineer, Harrisburg, Pa. Reinforced concrete, brick, steel, one story and mezz., basement, 676x788 feet, wood roof deck, built

up roof, cement floors, hollow tile, roof vents, caulking, metal lath, rolled steel sash, kalamain and hollow metal doors, bond, iron stairs, ornamental iron work, excavation, hardware, painting and glazing, metal toilet partitions, metal partitions, hand power elevator, kitchen equipment, accoustic treatment, quarry tile floors, gypsum roof, granite sills. Sinclair & Grigg, 1518 Walnut Street, Philadelphia, \$981,186; heating, Huffman Wolfe Co., 11 West Rittenhouse Street, \$118,500; electric: Conestoga Electric Co., Lancaster, Pa., \$109,170; plumbing, D. L. Rathbone, New D. A. R. Building, Washington, D. C., \$117,500.

Residence and Garage, Moylan, Delaware County, Pa. Contract awarded N. W. Bryan, 10 South 18th Street, Philadelphia. Architect, E. Kenny Crothers, Media, Pa. Owner, Edw. F. Beatty, Moylan, Pa. Stone, frame, 2½ stories and basement, 34x90 feet, hot water heat, oil burner, electric light, tile, ornamental iron work, shingle roof, oak and yellow pine floors.

East End Junior High School, York, Pa. Contracts awarded. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, School District of City of York, D. N. Crider, Secretary, Central School Building, York, Pa. Heating and ventilating, American Heating Co., Elverson Building, Philadelphia, \$44,997; plumbing and drainage, C. C. Kottcamp & Son, 515 West Market Street, York, Pa., \$19,350; electric, John Z. Barton, 251 South George Street, York, Pa., \$19,445.70.

Church (alts.), Glenside, Pa. Contract awarded Hood & Gross, 1535 Chestnut Street, Philadelphia. Architect, Frank R. Watson, 1520 Locust Street, Philadelphia. Owners, St. Paul's Lutheran Church, Glenside, Pa. General interior alterations, bond, plastering and millwork, carpentry, steel work, concrete work, cement floors, new radiators.

Residence, Guernsey Road, Swarthmore, Pa. Contract awarded F. K. Worley, 17th and Arch Streets, Philadelphia. Architect, Edwyn Rorke, North Glenside, Pa. Owner, C. H. Brower, care of architect. Stone, 2½ stories.

Church, Stonehurst Hills, Pa. Contract awarded R. G. Ewing, Cornwell Heights, Pa. Architects, Bureau of Architects M. E. Church, 1701 Arch Street, Philadelphia. Owners, Stonehurst Hills M. E. Church, Stonehurst, Pa. Concrete block, one story, hot water heat, electric light, oak and pine floors, shingle roof.

New Jersey Construction News

Foundry Building, Burlington, N. J. Preliminary plans in progress. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, United States Pipe & Foundry Co., Burlington, N. J.

Church, Trenton, N. J. Plans in progress. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owners, Hungarian Reformed Church, Rev. Rasz, Trenton, N. J. Brick, 1 story and basement, 40x50 feet, slate roof, electric light.

School Building, Remodeling into Municipal Building, Marlton Pike near King's Highway, Ellisburg, N. J., \$25,000. Plans in progress. Architects, Edwards & Green, 34 South Seventeenth street, Philadelphia. Owners, Delaware Township Committee, LeRoy Thomas, Chairman, Ellisburg, N. J.

Hospital, Asbury Park, N. J. Revised plans in progress. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Memorial Hospital of Asbury Park, Asbury Park, N. J. Brick, limestone, steel, 4 stories and basement. New bids will be taken in about 3 weeks.

Residences and Garages (3), Haddon Farms

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Estate, Haddonfield, N. J. Owners ready for sub-bids. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Haddon Farms Estate, care of Roy Sinquette, Haddonfield, N. J. Stone and frame, 2½ stories and basement, irregular sizes, hot water heat, electric light, metal lath, tile, shingle roof, oak and yellow pine floors, cement floors.

Residence (alts. and add.), New Garage, Atlantic City, N. J. Architects taking bids due November 4th. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, J. H. Weaver, Atlantic City, N. J.

Dormitories (4), Hillsdale, N. J. All bids rejected. Will readvertise. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2 stories, cement floors, gypsum tile roof.

Road Work. Route 6, Sec. 3, from East Brinkerhoff avenue to Lester street, in Boroughs of Palisades Park and Fort Lee, Bergen County, N. J. Low bidders: F. J. Graves & Sons Co., Ridgefield, N. J., \$363,354.34. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Earth excavation, rock excavation, borrow, planting of trees and protection of slopes.

Theatre, 2 Stores and 4 Apartments, King's Highway East and Ellis Street, Haddonfield, N. J. Architect taking bids, due November 2nd, 4.30 P. M. Architect, Howard E. Hall, 515 Market Street, Camden, N. J. Owner, Leslie W. Orr, Haddonfield, N. J.

New Jersey Contracts Awarded

Residences (2), \$4,000, 1134-36 North 35th Street, Camden, N. J. Contract awarded Lee Renner, 910 North 33rd Street, Camden, N. J. Owner, Samuel Pierce, 1019 North 22nd St., Camden, N. J. Frame, two stories, 14x32 feet, asphalt shingle roof, pine floors, warm air heat, electric light.

School, Salem, N. J. Contract awarded. Architect, Walter L. Custer, Bridgeton, N. J. Owners, Quinton Township School Board, Quinton, Salem, N. J. Brick and steel, east stone, 2 stories and basement, 132x28 feet, 2 wings, 26x23 feet, asbestos shingle roof, yellow pine floors, concrete and cement work, metal ceilings, metal lath, plastering, hollow tile work, dampproofing, carpentry and mill work, metal toilet partitions. General, C. J. Scully & Son, Wildwood, N. J., \$31,350. Plumbing, W. H. Custer & Son, Salem, N. J., \$5,400. Heating, C. W. Richards Co., Bridgeton, N. J., \$4,907. Lighting, William Snell, Vineland, N. J., \$568.

Power House, State Colony for Feeble Minded Males, Woodbine, N. J. Contract awarded Bennett-McLaughlin, 3434 Sansom street, Philadelphia (note contractor). Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, State House, Trenton, N. J. Brick, reinforced concrete, steel, 1 story and basement, 96x46 feet, slate roof, wood deck, gypsum, cement floors, ornamental iron work, bond, hollow metal doors.

Store Building, Hudson and Taylor streets, Camden, N. J. Contract awarded J. Shlainson, Collingswood, N. J. Architects, Lackey & Hettel, 544 Federal street, Camden, N. J. Owners, Bleakley Brothers, 532 Federal street, Camden, N. J. Brick, steel, concrete two stories, 103x138 feet, concrete slag wood roof, concrete floors, roof ventilators, waterproofing and dampproofing, steam heat, electric light, tile, steel sash, skylights, iron work.

Hotel, Spring Lake, N. J. Contract awarded H. F. Pierce, 519 Sixth avenue, Belmar, N. J. Architect, Warren H. Conover, 114 Liberty street, New York City. Owners, Hastings Square Hotel Corporation, Spring Lake, N. J. Brick, steel, 6 stories and basement, irregular size, slag roof, cement and yellow pine floors, ornamental iron, tile work (heating, plumbing, electrical work and elevators reserved).

Residence, Pennsgrove, N. J. Contract awarded Smyth Construction Co., 1415 Clinton street, Wilmington, Del. Architects, Stanhope & Bennett, Equitable Building, Wilmington, Del. Owner, Dr. Kirk, Pennsgrove, N. J. Brick, 2½ stories, 30x45 feet, slate roof, hardwood floors, tile work, electric light.

Restaurant (alts.), 1228-30 Atlantic avenue, Atlantic City, N. J. Contract awarded Samuel Dolinsky & Son, Commerce Building, Atlantic City, N. J. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owners, Linton Lunch, 3720 North Broad street, Philadelphia. General interior alterations.

Combination Church and School, Jersey City, N. J. Contract awarded Montague & Son, Jersey City, N. J. Architect, Emile G. Perrot, 1211 Arch st., Phila. Owners, Roman Catholic Church of the Assumption of B. V. M., Jersey City, N. J. Brick, steel and concrete, 3 stories, 53x100 feet, steam heat, electric light, plumbing, slag roof, Linotile, rubber tile and pine floors.

Residences (10), \$40,000. 141-59 Eutaw avenue, Camden, N. J. Contract awarded Edward B. Carey, 532 Trenton avenue, Camden, N. J. Architect, private plans. Owners, Lorigan-Hurley Co., Camden, N. J. Brick, 2 stories, 18x33 feet, slag roof, pine floors, warm air heat.

Building, \$5,500. Seventh and Bulson streets, Camden, N. J. Contract awarded Carl L. Furner, Oaklyn, N. J. Architect, Ernest L. Ergood, Collingswood, N. J. Owner, Stanley S. Cramer, 1100 King's Highway, Haddon Heights, N. J. Steel framing, 1 story, 40x80 feet, sheet metal roof.

Residence (add. and alts.), \$2,000. 1714 South Ninth street, Camden, N. J. Contract awarded Robert Dyer, Lawnside, N. J. Owner, Richard Robinson, Camden, N. J. Frame, 1 story add., 10x14 feet, 6x14 feet, tin roof, excavation, concrete foundations, new chimney, moving house, raising house, mill work, carpentry.

Widening White Horse Pike, Berlin, N. J. Owners, Borough of Berlin, N. J. Contract awarded John Pangia, Ateo, N. J. Includes curbs, inlets and concrete paving.

Residence, Cranberry, N. J. Contract awarded Robert Tucci, 449 Hamilton street, Trenton, N. J. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owner, A. L. Burrough, Cranberry, N. J. Brick, 2½ stories, 58x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work.

Miscellaneous

Construction News

Residence (alts. and add.), Wilmington, Del. Plans in progress. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, A. M. L. DuPont, Montchanin, Wilmington, Del. Brick, stone, 2½ stories, 20x30 feet, slate roof, concrete and oak floors, electric light, tile work, flagstone.

Auditorium and Alterations to Present Church, Chewsville, Md. Plans in progress. Architects, Witman & Royer, 36 East Market street, York, Pa. Owners, United Brethren Church, Rev. Paul E. Cooper, Chewsville, Md. Brick, 1 story and basement, 46x60 feet, slate roof, maple floors, electric light.

Insurance Building, Belair, Md. Plans in progress. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Mutual Insurance Co., Belair, Md. Brick, steel, 2 stories, 72x42 feet, composition roof, oak floors, hollow tile, roof ventilators, electric light, tile work.

Residence, Mt. Dowe, Florida. Owner will take bids. Architects, Witman & Royer, 36 East Market street, York, Pa. Owner, LeRoy C. Smith, Mt. Dowe, Florida. Brick, 2 stories, 40x42 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work.

Residence, Wawasett Park, Wilmington, Del. Architects ready for revised bids. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owners, Charles C. Keedy, DuPont Building, Wilmington, Del. Cinder block, stucco, 2 stories, 40x50 feet, tile roof, hardwood floors, hot water heat, electric light, oil burners, casement windows.

Store and Office Building (alts.), Southeast Corner Church and Chapel streets, New Haven, Conn. Owners taking bids due October 31st. Architects, H. G. Mitchell, 44 West Eighteenth street, New York City; Avolin & Dingeldern, 1556 Bergen street, Brooklyn, N. Y. Owners, United Cigar Stores Co., 44 West Eighteenth street, New York City. Shorings, underpinning, concrete work, structural steel, ornamental iron work, copper work, kalamein doors, bronze work, metal lath, plastering, marble, tile and terrazzo, carpentry and mill work, hardware, metal ceiling, slag roofing, painting, plumbing, elevators, electric work, dumb waiters.

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Miscellaneous Contracts Awarded

Hospital (alts. and add.) and Nurses' Home, Wilmington, Del. Contract awarded A. L. Lauritsen, DuPont Building, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Homeopathic Hospital, care of architect. Brick, reinforced concrete, limestone, steel, metal lath, tile, marble, terrazzo, steel sash, hollow metal sash, fire doors, iron stairs, ornamental iron, bronze, area gratings, composition roof, cement and yellow pine floors, hollow tile, demolition, excavation, tile copings, architectural terra cotta, hollow metal doors, trim, carpentry, mill work, caulking, metal toilet partitions, screens, dumb waiters, vault doors, linoleum, composition floors, painting, glazing, gypsum block, nurses' home, 4 stories, 97x36 feet, wing 57x31 feet, hospital building, 115x26 feet, wing 49x50 feet.

School Building (add.), Richardson Park, New Castle, Del. Contract awarded John McShain, 1610 North street, Philadelphia. Architects, Guilbert & Betelle, Chamber of Commerce, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, State Superintendent, County Building, Wilmington, Del. Brick, concrete, timber roof construction, 2 stories, 119x61 feet, steel, iron, painting, carpentry, masonry work (plumbing, heating, ventilating and electric work separate).

New Hanger and Office (add.), New Castle, Del. Contract awarded Haverstick & Borthwick, 1505 Race street, Philadelphia. Architect, private plans. Owners, Bellanca Aircraft Corporation, New Castle, Del. Brick, steel, 100x120x23 feet high, steel truss, shingle roof, corrugated asbestos cement, yellow pine and cement floors.

Neurosychniatric Ward, Washington, D. C. Contract awarded National Construction Co., Atlanta, Georgia. Architect, private plans. Owners, United States Veterans' Bureau, United States Government, Washington, D. C. Brick, limestone, steel, 3 stories and base-

ment, 203x121 feet, steam heat, electric light, metal lath, tile, marble and terrazzo, rolled steel sash, kalamein doors, bond, ornamental iron work, slate roof, cement floors, elevators, waterproofing and dampproofing, aluminum window guards, painting and glazing, plumbing, reinforced concrete work.

Store, N. E. Cor. Main and Center Streets, New Rochelle, N. Y. Contract awarded Geo. Watson, 260 North st., New Rochelle, N. Y. Architect, Stuckert & Co., 1600 Arch Street, Philadelphia. Owner, Ferguson's Market, New Rochelle, N. Y. Brick, one story, metal lath, tile, marble, metal bulks, slag roof, yellow pine oors.

Store, 562 Main Street, New Rochelle, N. Y. Contract awarded George Watson, 260 North Street, New Rochelle, N. Y. Architects, Stuckert & Co., 1600 Arch Street, Philadelphia. Owners, Ferguson's Market, New Rochelle, N. Y. Brick, one story, tile, marble, metal bulks, slag roof, yellow pine floors.

FINDS RAPID SWING TO FIVE-DAY WEEK

The five-day or forty-hour week, for building trades mechanics is probably the most important issue now facing the nation's building industry. To obtain the extensiveness of the five-day week movement, S. W. Strauss & Co., has made a national survey of industrial conditions in this industry. The result of this survey shows that the trend is rapidly swinging to the shorter week and that at this time approximately twenty-five per cent. of the building mechanics of the country are working on the basis of the forty-hour week.

Data and statistics on the short work week were obtained from builders in 100 large cities that range from Coast to Coast, from cities along the Canadian border southward to the Gulf of Mexico. Builders in a large percentage of the cities responded with the desired information. This information furnished shows there are approximately 200,000 building trades artisans employed on the five-day week basis.

Officials of the building trades depart-

ment of the American Federation of Labor estimate the membership of the organized building trades workers in the United States and Canada at 800,000.

The backbone of the five-day week movement is furnished by the building workers of the metropolitan district of New York. It is estimated that of the 200,000 building workers now on the five-day schedule, 150,000 of them are New York craftsmen, 18,000 of the five-day week workers are Pittsburgh mechanics and the remaining 32,000 are journeymen that have procured the forty-hour week in individual trades units in other cities.

Considerable impetus will be given the five-day movement if Chicago's 110,000 building workers succeed in procuring it. Most Chicago building trades received wage increases late this spring and early summer. There was talk of the forty-hour week when contracts were being negotiated but this agitation was shelved when the trades were given a substantial wage increase. Recently, however, agitation for the five-day week started in Chicago. This movement began shortly after the short work week was conceded to the New York building workers. Chicago builders are giving the forty-hour week consideration and a decision is expected soon.

In obtaining data on the five-day week, effort was extended to secure for the survey a general idea of labor conditions in the building industry in the United States and Canada. There are practically no strikes of building mechanics. Occasional jurisdictional disputes that develop between individual trades and building contractors are quickly and amicably settled.

Wage rates for building workers throughout the United States are the highest in history; New York taking the lead with the \$1.87½ rate paid bricklayers. The wage for this craft will be increased on the first of the year by a few cents and the contract will then remain in force until 1932.

Plasterers in New York are receiving \$1.75 an hour, while in Chicago both bricklayers and plasterers have negotiated an agreement for \$1.70 an hour. The Chicago plasterers are engaged on a five-day week basis. Iron workers in New York receive \$1.75 an hour; in Chicago \$1.62½ an hour. There are a number of New York trades, however, receiving \$1.50 an hour; a greater percentage of them, in fact, than in Chicago where the average wage rate is \$1.62½ an hour.

Building contractors and various associations of builders throughout the United States and Canada, in their reports on the forty-hour week, point out that the bricklayers, plasterers, painters and lathers are the four trades that are the pioneers in the five-day work week for building trades workers. In some cities reports from builders show that there are now five and six trades employed on the

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forty-hour schedule, while reports from others show that only one and two and three trades are now employed on the short work week basis.

The forty-hour movement has become pronounced in Boston, New York, Chicago, St. Louis, Pittsburgh, Spokane, Springfield (Mass.), Cleveland, Philadelphia, Providence, Hammond (Ind.), Indianapolis, Harrisburg, Denver, Dayton, Elizabeth, Cincinnati, Dallas, Atlantic City, Louisville, Birmingham, Toronto, Utica, Wilmington, Bridgeport, Buffalo, Butte, Evansville, Gary, Rock Island, Pasadena, Lynn, Seattle and Scranton. It is estimated that in all more than 300 cities and towns in the United States now have the five-day week in at least one trade.

The Strauss survey reveals an important change which is happening in the building industry through the high wage scale structure and the adoption of the forty-hour week. This change, builders say, will confront, within a short time, the organized building trades with a most perplexing problem.

These builders point out that in order to cope on a warranted basis with the present high wage structure, contractors are demanding a maximum of efficiency from all building workers. This requirement automatically has begun to hold the confines of construction to mechanics who are not too old. This condition has brought about an elimination process through the rapid return to normalcy of construction activities throughout the country. Today in practically all the large cities, with the possible exception of New York, there is a large surplus of building mechanics unable to find employment.—*Associated Contractor.*

The reformation of those methods and conditions that have made for irresponsibility in the construction industry is proceeding so rapidly as to promise early results throughout the nation, declared D. A. Garber, general manager of the Associated General Contractors of America, shortly after the close of the conference of the executive bodies of that organization held at Hartford, Connecticut, October 7 to 9.

The hundreds of millions of dollars lost in bad accounts, the unwarranted delays in construction, the dual payments forced from owners under existing lien laws and the countless other losses sustained by the public because of existing uneconomic practices were all under review at the executive board meeting, where plans were perfected for promoting the present housecleaning program of the association.

The task of substituting sound business practices for the prevailing haphazard procedure involves five major objectives, it is stated by Mr. Garber. Each of these will tend to correct conditions which have

made for irresponsibility and will become effective at succeeding stages of initiating and carrying forward construction contracts.

Mr. Garber states that the five objectives toward which the various groups in the industry are co-operating include: prequalification of contractors before being allowed to bid, instituting more rigid examination of contractor applicants for surety bonds, the elimination of loose credit in the sale of construction equipment, greater care in extending banking credit to contractors and the curbing of loose credit in selling construction materials to contractors.

The significance of these reforms in construction business procedure are said to be as follows:

The system which has long prevailed of awarding work without due regard to the qualifications of the lowest bidder is rapidly being revised through a procedure which provides that public officials shall require contractors to submit evidence of their qualifications before being allowed to bid on proposed work.

Since one measure of a contractor's responsibility has been determined by his ability to secure a performance bond written by a surety company, the second stage of the housecleaning program has been directed toward a reform of certain practices involved in writing surety bonds.

Co-operation between organized contractors and surety companies has resulted in the launching of the Bureau of Contract Information, Incorporated, which is gathering the performance records of every contractor in the United States so that factual information may be available to all surety companies when any contractor seeks to secure a bond guaranteeing his own performance.

Through the double scrutiny which a

contractor's qualifications will receive in passing the prequalification tests given by awarding officials and in passing the past performance examinations given by surety companies, it is thought that rampant irresponsibility will be brought under partial control, at least.

The third item on the program being fostered by the contractors' association involves co-operation with bankers to the end that banks may more intelligently scrutinize the qualifications of those contractors who apply to them for credit. The procedure advocated involves the use of a standard form of questionnaire devised for bankers, which when filled out is claimed to provide a more accurate picture of a contractor's business condition than the commercial forms ordinarily used satisfactorily by banks in gathering information from mercantile and other such business concerns.

The fourth point of the housecleaning program involves the development of co-operation between organized contractors and the manufacturers of construction equipment to the end that standard credit terms may be applied in selling equipment. By the adoption of such terms it is expected that when a contractor satisfactorily passes the tests of prequalification so as to be allowed to bid, satisfies his surety as to his past performance record and satisfies his banker as to his financial ability he will still have to buy his equipment on businesslike terms rather than expect the equipment companies to grant him credit for indefinite periods.

The fifth housecleaning procedure involves co-operation with producers and dealers of construction materials to the end that loose credit practices will be eliminated in selling building materials to the industry. This program has already resulted in the promotion of allied construction industry credit bureaus in some

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fifty cities. In Detroit, Memphis and Los Angeles, where the interchange of credit information is furthest advanced, these efforts have not only revealed cumulative credit losses that have totaled well over \$30,000,000 but have already been effective in cutting down delinquencies and weeding out the irresponsible accounts.

ALIVE IN THE DEAD OF WINTER

Silent fields and frozen streams . . . hibernating bears . . . nature dormant.

No wonder ancient man huddled close about the fire in his hut; for the weather ruled his life.

But modern man lives a different life. He has built a complex civilization, with industry at its heart and business as its vital energy. And modern man, faced by an emergency, goes to work harder than ever and tells the world—"Business as usual."

He does so not merely because he's energetic, but because he cannot afford to have the complicated machinery of his world slowed down. It's bad business—bad business for Labor, for Capital, for Government and for human beings of every class and group.

Time was when the building industry quit cold when the first snow flew. Laborers lost their jobs, expensive equipment depreciated in idleness, overhead costs piled up, the buying capacity of millions was cut down—and every aspect of business, from the corner grocery to the opera, suffered. Needed improvements remained undone, costly land produced only bills for taxes due; in short, the construction world stood still, waiting for Spring. And when Spring came, there was a mighty rush for labor, ma-

terials, engineers and all the rest—a spectacle impressively unintelligent!

Nowadays, winter is recognized as an asset, not a liability. Modern equipment scorns the "difficulties" of winter construction; modern workers are efficient in winter and their jobs reflect that efficiency. The precautions that must be taken are simple and financially negligible, for they are more than overbalanced by the profits involved.

Capital gains, labor gains, communities profit and the whole organization of the modern world is toned up.

The sane common sense of business has ironed out the folly of the winter slump.

Contemplating building? A factory? A warehouse? An apartment available for early spring renting? A civic improvement? An office building? Ask your architect or engineer or contractor. He knows that winter is not dead!

CONCERTED MOVE STARTED TO WEED OUT "THE IRRESPONSIBLES"

As a decisive move in a program launched to safeguard the public from the acts of irresponsible contractors, the Bureau of Contract Information has just been incorporated under the laws of Delaware.

Data on the manner in which each general contractor in the United States has fulfilled past contract obligations is to be gathered and utilized in an effort to eliminate conditions that have made for irresponsibility in the construction industry. This was just announced by the Associated General Contractors of America and comes as the culmination of several

years of debate about practices involved in the writing of surety bonds.

The undertaking is a venture in co-operation between surety companies and organized contractors although it is independently organized as a fact gathering and investigating agency.

Through this bureau the actual work of gathering and compiling the business histories of some 26,000 firms listed as construction companies is being started under the direction of S. M. Williams, who is the manager of the Engineering Construction Division of the Contractors' Association. With the active backing of the organized contractors Williams represents, it is anticipated that this effort to make available the facts regarding the responsibility of every contractor will be carried to a successful conclusion.

Individual surety companies interested in the bureau have likewise agreed to pool their records. Questionnaires are rapidly being forwarded to contractors in order to obtain data direct from them as to their past performance and qualifications.

Costly delays that ensue when a contractor defaults on his contract, forcing his surety to take over and complete the work, have long been recognized as a source of loss and annoyance to the public which is deprived of the use of the improvement and suffers from the inconveniences attendant while construction operations are unduly extended.

The losses to surety companies, material and supply interests and the construction industry generally are conceived to be equally great. By having a record of the past performance of contractors available through an unbiased fact finding agency it is conceived that surety companies will be able to more intelligently judge of the ability of a contractor to carry through the contract on which they are called upon to write bonds guaranteeing performance.

In arguments during past years, charges of carelessness made against surety companies by contractors have been countered by citations indicating that contractors have failed to give accurate information about their businesses. The extensive and sometimes acrimonious debate on these points appears to have prepared the way for active co-operation and both groups are pinning their hopes on the success of the Bureau of Contract Information, Incorporated.—*Associated Contractor.*

NEW TYPES of buildings create new conditions for everyone who designs or constructs them. The new conditions require both a technical and an economic readjustment. Generally speaking, the technical readjustment in designing is made quickly. Nowhere in the world are engineers of all kinds and architects more versatile in developing a new technique. Never having failed, we naturally expect



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it of them and are too apt to accept their new production merely as "a matter of course."

"WITH THANKS" is not enough compensation for the demand of the new type buildings. One change in a building affects every item of its construction and it probably affects the structural engineering more than any other part. How?

IN THE "good old days" when the status of and compensation for structural engineering work was first established, buildings were simple affairs and not large. Now they are changed in almost every particular and each change has placed a greater burden of work upon the engineer with a corresponding necessity for greater knowledge and increased responsibility.

INCREASED HEIGHT of buildings is an important item of the new type. It necessitated the development of a system of wind bracing to resist wind and secondary stresses. A theory had to be established and a technique devised and as buildings increased to greater heights the responsibility for safe construction increased proportionately. The limit of height is by no means reached—scarcely anticipated. As the new demands come, the structural engineer is ready and the confidence placed in him has not been misplaced.

FLOOR LOAD requirements are also much more complicated. Loads are much heavier. Machinery is heavier, does more work and produces complicated impact stresses. Special transporting and elevating machinery require special provisions for its installation and support. All industrial building design is becoming more special as special processes and products are invented.

MECHANICAL EQUIPMENT from elevators to heating and plumbing is more complicated and with it structural parts must be coordinated in the design. Absolutely nothing can be left to chance. The engineer must foresee all of the necessities required and make provision therefor.

DARING INNOVATIONS, as they appear compared to the old time simplicity, are demanded as a matter of course. Large rooms requiring the elimination of columns are made at the top, middle or bottom of the building as the occupancy demands. Tremendous loads are shunted to one side, transferred to new bearings and back again with the same nonchalance and dexterity that distinguishes the marvelous prestidigitator. It's nothing, the engineer simply does it.

ECONOMICAL DESIGNING of the structural parts of buildings is demanded to offset the greatly increased cost of construction. Reducing or preventing rising labor costs or the price of materials appears to be simply out of the question. So the engineer has to reduce

the cost of the structural frame. They know that he never falls down on the job.

HE SIMPLY has to cut the cost in the face of tremendously increased requirements of greater and still greater buildings. It is an anomalous situation. By his skill, ingenuity and imagination in devising new combinations of sections, new connection details, simplify the distribution of loads and a thousand and one other things, he makes each pound of steel perform its maximum service.

WHAT IS the story? It is much more difficult, requires more time and knowledge, increases the responsibility and the cost to produce structural engineering designs for the new types of buildings.

"WITH THANKS" does not balance the account by any means. Every profession, every industry and business must operate with a profit if adequate service is to be rendered.

AGAIN:

Correct relations are the basis of social and economic welfare.

On the structural frame hang all of the building and its contents.

A SUGGESTION WITH REFERENCE TO BUILDING CODE REVISION

Eventually some agency of unquestioned integrity and equally recognized ability must assume the authority to supervise the writing of the building codes of the cities of America.

Until this is done there will always be laxity in their provisions which should make for safety.

Until this is done there will always be discrimination shown as between materials.

Until this is done building codes will not accomplish what they are intended to do. They will not insure the use of the best materials to the best advantage. They will not provide the safeguards to life and health which they are expected to make mandatory.

Until this is done they will permit gross abuses of the best principles of building construction. They will continue to grant extreme privileges to those materials whose proponents happen to be politically powerful or more adroit than their competitors in manipulating legislation.

Building codes have always permitted this in the past.

They are doing it today.

And they will continue so to do until the framing of them is placed in some very definite and undisputed hands which are unfettered by material affiliation or political influence.

The big question is: Whose hands shall they be?

And just as certain as the sun will rise tomorrow morning and set again tomorrow night, this suggestion will be resented

by the councilmen of every city in the country. For city councilmen are inordinately jealous of their authority, etc.

They're intended primarily to insure safety and sanitation in building construction. This affects the whole people and, incidentally, investment. The problem should be handled in a broad way.

Probably the American Standards Association stands pre-eminent among the organizations having to do with construction. It is composed of delegates from all other organizations prominent in construction.

Its tasks and its accomplishments are altogether altruistic. It isn't paid for what it may do.

Possibly it might be persuaded to recommend for each state the personnel of a building code revision, this board to be authorized by legislative enactment and to be named by the governor upon the Association's recommendation. And of course to be paid by the state.

Such a board, free from political obligation, from material influence, made up of men at the head of their individual professions, might, if any body of men might ever, be trusted to act impartially as a clearing house for all building codes of the cities of any given state. Its decisions should be final.

This may all appear idealistic, impractical, even fantastic, but something of the sort must be evolved if the grip of private, selfish interest is to be broken and the building code is to become the weapon of safety it was originally intended to be.—*Building Economy*.

HOW TO MAKE WET CELLARS DRY SUBJECT OF NEW U. S. BULLETIN

Wetness of basements and cellars is experienced by many home owners, but comparatively few know what to do about it. The U. S. Department of Agriculture has just issued a bulletin on the subject, Farmers' Bulletin No. 1572-F, "Making Cellars Dry." In some cases wet cellars can be made dry by gravity drainage of the site and in other cases better ventilation will improve conditions. Water-tight construction and water-proofing are good preventives of wetness. The bulletin makes suggestions regarding the prevention of wetness and dampness. It tells how to avoid the trouble when building a house and how to remedy it in old cellars. Lighting and ventilation, important factors, are discussed. Dryness in the cellar promotes comfort and health in the home, lengthens the life of houses, furnishings, and plumbing, and increases the usefulness of basements for storage, workshop, and laundry purposes. While the supply lasts, the bulletin may be obtained free from the Office of Information, Department of Agriculture, Washington, D. C., upon request.

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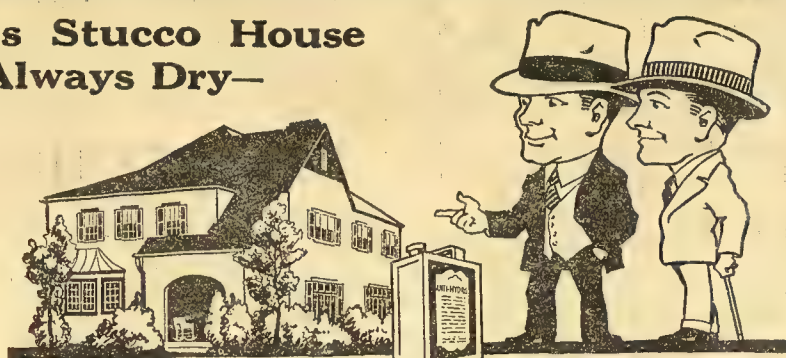
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLIV, No. 45
November 6, 1929

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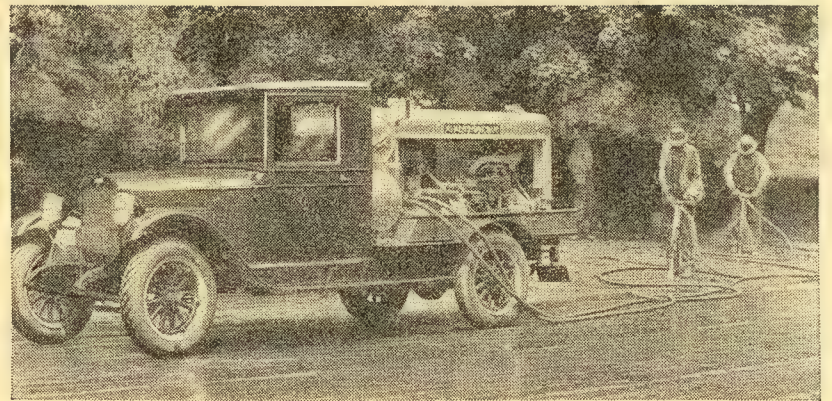
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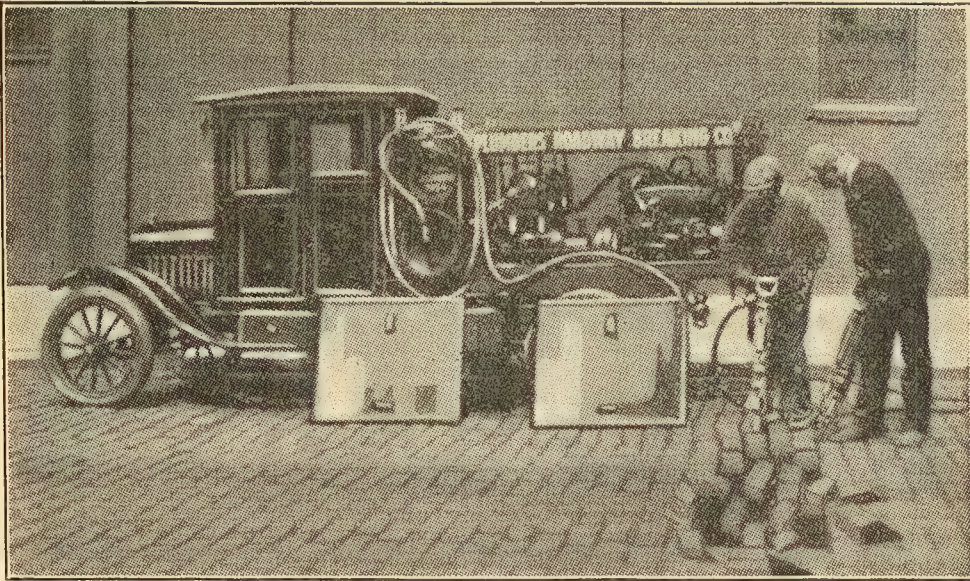
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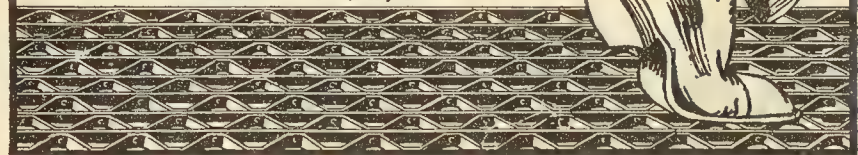
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 45

Engineering and the Building Trades

PHILADELPHIA

November 6, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Stores, Southwest Corner Forty-third and Walnut streets, Philadelphia. Work contemplated. Architect, private plans. Owner, Charles Kahn, Sydenham and Locust streets, Philadelphia.

Store Building, 1720-22-24 Chestnut street, Philadelphia. Plans in progress. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Winkelman Brothers, Heymann Building, Philadelphia. Brick, limestone, steel, 3 stories.

Offices and Garage Building, 1505-07-09 Spruce street, Philadelphia. Plans in progress. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Real Estate Assets Corporation, care of Edgar G. Cross, 123 South Broad street, Philadelphia. Brick, steel, limestone, 26 stories, 66x240 feet.

Church, \$15,000. Third and Chew streets, Philadelphia. Preliminary sketches drawn. Architect, G. E. Merrill, 23 East Twenty-sixth street, New York City. Owners, Olney Baptist Church, Rev. Eric Oesterle, 5708 North Third street, Philadelphia. Operating architect will be selected after November 10th.

Residence and Garage, \$30,000. Chestnut Hill Section, Philadelphia. Preliminary sketches in progress. Architect, H. G. McMurtre, 1321 Arch street, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement.

Apartment House (1 unit) (5 apartments), East side Broad street, below Roosevelt Boulevard, Philadelphia. Plans in progress. Architect, I. Frank Miller, 1012 Walnut street, Philadelphia. Owner, name withheld. Brick, 3 stories and basement, 16x92 feet, hot water heat, oil burner, electric light, metal lath,

tile, slag roof, oak and cement floors, Murphy beds, kitchen equipment, electric refrigeration.

Residence No. 5, Allen's lane, West of Greene street, Philadelphia. Plans in progress. Architect, Edwyn Rorke, Keswick Theatre Building, Glenside, Pa. Owner, Walter S. Steumfig, 5400 Wayne avenue, Philadelphia. Stone and steel, 2½ stories and basement.

Gas Sales and Service Station, 3944-46-48 North Broad street, Philadelphia. Plans in progress. Architect, private plans. Owners, Standard Oil Co., Public Ledger Building, Philadelphia.

Apartment House, Grange and Virginian roads, Philadelphia. Revised plans in progress. Will be ready for sub-bids in one week. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owners, Friedman & Friedman, 6746 Old York road, Philadelphia. Brick, steel, cast stone, 4 stories, 55 suites, slag roof, hardwood floors, vapor heat, electric light, tile, refrigeration, incinerator.

Vehicular Tunnel, \$250,000. Beneath Fifth street, from Race to Vine street, Philadelphia. Owners ready for general bids. Architect, Ralph Modjeski, Engineer, 1420 Walnut street, Phila. Owners, Delaware River Bridge Joint Commission, Joseph K. Costello, General Manager, Bridge Plaza, Camden, N. J. Deposit, \$10, refunded. Bond.

Superstructure, Fox and Roberts avenues, Philadelphia. Engineer ready for bids on superstructure in a month. Architect, Julian Simson, Broad and Girard avenue, Philadelphia. Owners, Morris, Wheeler & Co., Inc., Thirtieth and Locust streets, Philadelphia. Brick, steel, 1 story. Substructure awarded

to McCormick-Lenham Co., Fortieth and Chestnut streets, Philadelphia.

Store and Residence (alts. into 3 stores and apartments), 2600-02 Wharton street, Philadelphia. Architect will sublet. Architect, Leo R. Malatesta, 1919 North Sixty-first street, Philadelphia. Owner, Joseph W. Brackin, 2711 Reed street, Philadelphia. General interior alterations, oak and linoleum floors, plumbing, mill work, repair roof, concrete work, plate glass, hot water heating, electric work.

Jewelry Trades Building, 740 Sansom street, Philadelphia. Architect taking bids due November 8th. Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia. Owner, Wilfred F. Fry, West Washington Square, Philadelphia. Brick and steel, reinforced concrete, limestone, 6 stories and basement, 90x91 feet (plumbing, heating, electric separate bid), metal lath, tile, marble, terrazzo, rolled steel sash, hollow metal sash, bond, metal bulks, iron stairs, ornamental iron work, area gratings, cinder concrete block, composition roof, concrete roof deck, cement and oak floors, hollow tile, elevators, caulking, waterproofing, dampproofing, cork insulation, mail chute, painting and glazing, hardware, metal toilet partitions, kalamein doors, metal door and trim, bronze work, demolition, excavation, integral waterproofing, granite work, alberne stone, vitrolite floors, bluestone.

Abattoir, Thirty-sixth and Gray's Ferry avenue, Philadelphia. Owners taking bids due December 2nd. Architect, C. B. Comstock, 110 West Fortieth street, New York. Owners, West Philadelphia Stock Yards, Thirtieth and Race streets, Philadelphia. Brick and steel, 6 stories and basement, 254x147 feet, metal

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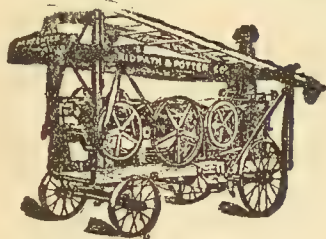
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Residences (2), \$6,000 total. North side Flamingo street, East of Fowler street, Philadelphia. Permit issued. Architect, private plans. Owner, Henry C. Missimer, 6817 Ridge avenue, Philadelphia. Stone and brick, 2 stories, 20x40 feet, hardwood and pine floors, hot water heat, electric light.

Residence, \$3,500. 3313 Almond street, Philadelphia. Permit issued. Architect, private plans. Owner, Stanislaus Ozga, 3370 Salmon street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, pine floors, hot water heat, electric light.

Tank Foundations, \$155,000. Schuylkill River, South of Pennypacker avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Standard Oil Co., Public Ledger Building, Philadelphia.

Residence, \$3,500. South side National street, East of James street, Philadelphia. Permit issued. Architect, private plans. Owner, Alex. Jastrzembski, 4512 Pierce street, Philadelphia. Brick, 2 stories, 15x43 feet, slag roof, pine floors, electric light, hot water heat.

Garage, \$2,000. Southwest Corner Thirtieth and Berks streets, Philadelphia. Permit issued. Architect, private plans. Owner, Joseph Shapiro, Forty-ninth and Locust streets, Philadelphia. Brick, 1 story, 9x15 feet, slag roof, cement floors.

Miscellaneous Work, Philadelphia, Pa. Owners taking bids due November 8th, noon. Owners, Department of Supplies, Room 302, City Hall Annex, Philadelphia. Bids opened Room 305. Certified check, 5 per cent. Hose couplings, connections, ready mixed concrete, air compressors, carpets and linoleum.

Miscellaneous Road Work, Philadelphia, Pa. Low bidders. Adams street, Tabor to Montour, Adams, Harrison, etc., Mazzolla & Marano, 739 South Seventh street, Philadelphia, \$11,034.83. Cresson street and Merrick road, intersection, Elkins Paving Co., 834 North Holly street, Philadelphia, \$4,293.30. Dungan, Lycoming to Hunting Park avenue, Philadelphia, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$4,249.60. Master street, Second to Fourth, Elkins Paving Co., 834 North Holly street, Philadelphia, \$12,742.60. Green street, Second to Third, Fourth to Sixth street, Philadelphia, Montgomery Paving Co., Harrison Building, Philadelphia, \$23,436.25. Jefferson street, Broad to Tenth street, Municipal Paving Co., Second and Wingohocking streets, Philadelphia, \$25,975.42; Barber Asphalt Co., 1600 Arch street, Philadelphia, \$28,897.46.

Sunday School, Elmwood Avenue, near 72nd Street, Philadelphia, Pa. Architect taking revised bids. Architect, Adiel Martin Stern,

413 N. 38th St., Phila., Pa. Owners, Karmel Reformed Church, W. G. Weiss, 2434 S. 72nd Street, Philadelphia, Pa.

Church and Parish Building, N. E. Corner Howard and Ontario Streets, Philadelphia, Pa. Architect taking revised bids, due as soon as possible. Architects, Frank R. Watson-Edkins & Thompson, 1520 Locust Street, Philadelphia, Pa. Owners, St. Ambrose Mission, Rev. F. B. Halsey, Howard and Ontario Streets, Philadelphia, Pa. Reinforced concrete, brick, stucco, steel, one story and basement, 36x65 feet, wing 79x40 feet, steam heat, electric light, metal lath, rolled steel skylights, bond, steel casement windows, Barrett specified roof, tile roof, maple and cement floors, yellow pine floors, dampproofing, eaststone, demolition, excavation, metal toilet partitions, plumbing, hardware.

Warehouse, Torresdale and Kinsey Streets, Philadelphia, Pa. Owners ready for bids in a week. Architect, private plans. Owners, Crane Co., 1301 Locust Street, Philadelphia, Pa., D. G. Park, Purchasing Agent, 836 South Michigan Avenue, Chicago, Ill.

Men's Tubercular Building, 34th and Pine Streets, Philadelphia, Pa. Work contemplated. Architect not selected. Owners, Philadelphia General Hospital, Dr. Arthur C. Morgan, Head of Staff, 34th and Pine Streets, Philadelphia, Pa.

Church, 5625 Haverford Avenue, Philadelphia, Pa. Architects ready for revised bids. Architects, Steinmeyer Brothers, International Life Building, St. Louis, Mo. Associate architect and supervisor, Alvin C. Bieber, 1520 Locust Street, Philadelphia, Pa. Owners, St. Philip's Lutheran Church for Board of Colored Lutheran Missions, care of architects.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Tubercular Hospital and Dining Room Building, Holmesburg, Pa. Contract awarded. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Board of Inspectors, Philadelphia County Prison, William H. Heston, Superintendent, Tenth and Reed streets, Philadelphia. Reinforced concrete, Holmesburg granite, steel, 1 story and basement, 87x55 feet, 26x48 feet, 1 story and basement, dining room building, irregular, metal lath, tile, marble, rolled steel sash, tin roof, rolled steel skylights, bond, ornamental iron work, composition roof, cement floors, caulking, brick work, fireproofing, limestone, steel windows, rubber tile floors, kitchen equipment, screens and hardware. McCabe Brothers, Rock Hill road, Cynwyd, Pa., \$74,900. Heating, N. Connolly, 1404 North Eighteenth street, \$24,965. Plumbing, Bulman Brothers, Fifth and Cumberland streets, \$5,280. Electric, Walker & Kepler, 531 Chestnut street, \$22,773.

Ice Manufacturing Plant and Storage Building, Limekiln pike and Eighteenth street, Philadelphia. Contract awarded Sutton & Stephenson, 1317 Washington avenue, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owners, American Ice Co., 121 North Broad street, care of James H. Morris, Manager, 121 North Broad street, Philadelphia. Engineer, F. G. Frederick, care of American Ice Co., 121 North Broad street, Philadelphia. Brick, reinforced concrete, limestone, steel, 1 story, 143x148 feet x irregular, rolled steel sash, bond, ornamental iron work, slag roof, wood deck, cement and oak floors, hollow tile, dampproofing, terra cotta, coping, excavation, cork insulation, cold storage doors, waterproofing, plumbing.

Contract No. 230, Broad Street Subway, Philadelphia, Pa. Contract awarded Kaufman Construction Co., 26 South Fifteenth street, Philadelphia, Pa., \$123,265. Owners, Department of City Transit, Thirteenth Floor, City Hall Annex, Philadelphia. Miscellaneous iron work, bronze work, mill work, glazing, brick work, plastering, painting, sheet metal work, fire doors, hardware.

Office, 3489 Ridge avenue, Philadelphia. Contract awarded Bowden Construction Co., 1607 Summer street, Philadelphia. Architects, Wallace & Warner, 1500 Chestnut street, Philadelphia. Owner, George Burnett, 3489 Ridge avenue, Philadelphia. Brick, steel, limestone,

1 story, 21x26 feet, warm air heat, electric light, steel casement windows, asbestos shingle roof, yellow pine floors, plumbing, decorative plastering, excavation.

Ladies' Rest Room (alts. and add.), Reading Terminal, Twelfth and Market streets, Philadelphia. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia. Architect, Clark Dillenback, Reading Terminal Building, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Marble work, carpentry, plumbing fixtures, painting.

Store (alts.) and Service Building, 3042-46 North Broad street, Philadelphia. Contract awarded C. C. Eddleman, Presser Building, Philadelphia. Architect, private plans. Owner, H. Swoboda, care of builder. General interior alterations.

Store (alts. and add.), 4662 Frankford avenue, Philadelphia. Contract awarded S. Yellin & Son, 222 North Eleventh street, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, George Hutchins Stores, Inc., 5621 Germantown avenue, Philadelphia. New front and general interior alterations.

Storage Building (add.), \$5,500. 537 North Orianna street, Philadelphia. Contract awarded Edward J. Dale, 714 Fairmount avenue, Philadelphia. Architect, private plans. Owner, Eli Haeberle, 6634 Boyer street, Philadelphia. Brick, 2 stories, 14x36 feet.

Dye House, \$5,000. Northwest Corner Amber and Seltzer streets, Philadelphia. Contract awarded Wintz Brothers, 1618 Sellers street, Philadelphia. Architect, private plans. Owners, Thomas Dawson Dye Works, on premises. Brick, 1 story, 40 feet 6 inches x 61 feet.

Store and Residence (alts.), \$2,200. 3051 Richmond street, Philadelphia. Contract awarded K. Zolbowski, 2737 East Indiana avenue, Philadelphia. Architect, private plans. Owner, M. Szypula, 3048 Richmond street, Philadelphia. General alterations.

College (alts.), \$2,500. Northeast Corner Thirty-second and Chestnut streets, Philadelphia. Contract awarded H. J. O'Brien, 6635 Wayne avenue, Philadelphia. Owners, Drexel Institute, on premises. General alterations.

Mill (alts.), \$2,000. Southwest Corner Twenty-first and Cora streets, Philadelphia. Contract awarded C. C. Bullock, 4039 Filbert street, Philadelphia. Owners, Darby Steel

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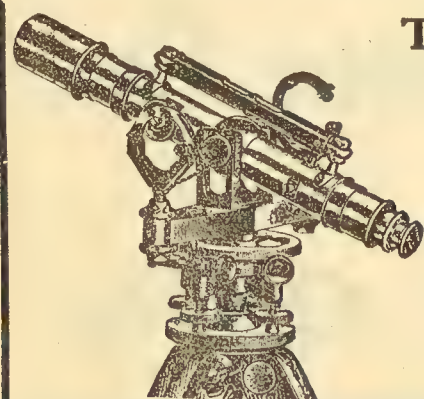
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Equipment Co., 1918 Germantown avenue, Philadelphia. General alterations.

Restaurant, \$5,000. West side Roosevelt Boulevard, North of Stanwood street, Philadelphia. Contract awarded Geiger & Son, 4657 James street, Philadelphia. Architect, private plans. Owner, Albert Fullmer, on premises. Brick, 1 story, 45x30 feet.

Building (repairs), \$2,000. Northeast Corner Frankford avenue and Devereaux street, Philadelphia. Contract awarded Rush Brothers, 4682 Darrah street, Philadelphia. Owners, Frankford Yellow Jackets, on premises. General alterations.

Manufacturing Building (alts.), \$2,000. Rear of 1017 North Front street, Philadelphia. Contract awarded Frank Achuff, 1600 North Front street, Philadelphia. Owners, Mary Disston Estate, on premises. General alterations.

Manufacturing Building, \$80,000. Fifty-sixth street and Schuylkill River, Philadelphia. Contract awarded Morton C. Tuttle Co., Fifty-sixth and Schuylkill River, Philadelphia. Owners, United States Gypsum Co., on premises. Brick, 1 story, 60x160 feet.

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Wagon Shed, \$3,500. North side Church street, East of Griscom street, Philadelphia. Contract awarded Dardis & Lavery, 1543 Church street, Philadelphia. Architect, private plans. Owner, Gustave Bicker, 4310 Frankford avenue, Philadelphia. Brick, 1 story, 32x56 feet.

Residences (10), \$76,000. West side York road, North of Loudon street, Philadelphia. Contract awarded William Jones, 1518 Walnut street, Philadelphia. Architect, private plans. Owner, Albert Griggs, 1518 Walnut street, Philadelphia. Brick, 3 stories, 17 feet 3 inches x 28 feet 11 inches, 14 feet 3 inches x 17 feet, slag roof, hardwood and pine floors, electric light, tile work.

Factory, \$19,000. 4801 Stenton avenue, Philadelphia. Contract awarded Paul Brosz, 2515 West Huntingdon street, Philadelphia. Architect, private plans. Owners, Wicaco Screw & Machine Works, Inc., on premises. Concrete, steel, 1 story, 60x114 feet.

Storage Building, \$8,000. East side Orianna street, North of Girard avenue, Philadelphia. Contract awarded P. Haibach Contracting Co., 1261 North Twenty-sixth street, Philadelphia. Architect, private plans. Owners, Louis Burke, Inc., Northwest Corner Third and Girard avenue, Philadelphia. Brick, 4 stories, 16x55 feet, 17x11 feet.

Storage and Shop (add.), \$7,000. 4432 Ridge avenue, Philadelphia. Contract awarded David M. Hunt, Greene and Chelton avenue, Philadelphia. Owner, Robert C. White, on premises. Brick, 3 stories add., 41 feet 6 inches x 35 feet 7 inches.

Anchorage for Marquette, \$4,000. South side Market street, West of Sixteenth street, Philadelphia. Contract awarded Stewart & Co., 616 North Forty-fifth street, Philadelphia. Owners, Stanley Company of America, Eleventh and Market streets, Philadelphia.

Elevators, \$2,500. Southeast Corner Fifth and Chestnut streets, Philadelphia. Contract awarded H. E. Baton, Inc., 1713 Sansom street, Philadelphia. Owners, Estate of Anthony Drexel, on premises.

Residence and Store (alts.), \$2,200. 852 North Marshall street, Philadelphia. Contract awarded Morris Kroutz & Co., 823 North Marshall street, Philadelphia. Owner, Joseph Magneo, on premises. General alterations.

Store (alts.), \$2,000. 4662 Frankford avenue, Philadelphia. Contract awarded S. Yeldelphia. Owners, Stanley Company of America, Eleventh and Market streets, Philadelphia. General alterations.

Building (alts.), Southwest Corner Bainbridge and Marvine street, Philadelphia. Contract awarded Harry R. Rust, 41 North

Hutchinson street, Philadelphia. Architect, private plans. Owners, Horn & Hardart Co., 208 South Warnock street, Philadelphia. General alterations for garage.

Pennsylvania Construction News

Supplies, etc. Harrisburg, Pa. Owners taking bids due November 12th, noon. Owners, Department of Supplies, B. E. Taylor, Secretary, Department of Supplies, Capitol Building, Harrisburg, Pa. Furnishing supplies, equipment and repairs, paint and glass, for use by the Executive Mansion and several Departments, Boards, Commissions and State Institutions of the State Government. Certified check.

Store, Main Street, Yardley, Pa. Plans in progress. Architects, Heacock & Hokanson, 1211 Chestnut Street, Philadelphia, Pa. Owners, Yardley National Bank, Henry W. Comfort, President, Yardley, Pa. Brick and steel, one story, 20x60 feet. Lessee, American Stores Co., 424 North 19th Street, Philadelphia, Pa.

Residence and Garage, Swarthmore, Pa. Work contemplated. Owner, Mrs. L. H. Whitman, care of Louis Coles Emmons, Swarthmore, Pa.

Stadium, Athletic Field, Bethlehem, Pa. Work contemplated. Owners, City of Bethlehem, School District, Y. F. Judd, President. Center and North streets, Bethlehem, Pa.

School Building, Northeastern Section of Norristown, Pa. Work contemplated. Owners, School District of Norristown, Pa., H. O. Dietrich, Superintendent.

Residence, North side Germantown-Perkiomen Turnpike, West of Thomas road, White-marsh Township. Architect, not selected. Owner, R. Maurice Snyder, 1520 Locust street, Philadelphia. Contemplated, mature in about 2 years.

Y. M. C. A. Building, \$600,000. Hampden road and Ridgefield avenue, Upper Darby, Pa. Work contemplated. Probable site. Architect, not selected. Owners, Young Men's Christian Association, Walter M. Wood, Secretary, Broad and Arch streets, Philadelphia.

Convent (Chapel add.), Camp Hill, Pa. Plans in progress. Architect, B. E. Starr, 7 South Market Square, Harrisburg, Pa. Owners, Dominican Sisters of the Perpetual Rosary, care of architect. Too early for details.

Jail Building, \$230,000. Western State Penitentiary, Rockview, Pa. Plans in progress. Architect, Harry Viehman, Chamber of Commerce Building, Pittsburgh, Pa. Owners, Commonwealth of Pennsylvania, Western

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State Penitentiary, Bureau of Engineering & Construction, State Capitol, Harrisburg, Pa.

Parochial School (add. and alts.), Hanover street, Nanticoke, Pa. Plans in progress. Architect, Alexander Prawdzik, 821 Moosic street, Scranton, Pa. Owners, St. Mary's Roman Catholic Church, Rev. A. G. Lewandowski, 1030 South Hanover street, Nanticoke, Pa.

Armory (alts. and add.), Berwick, Pa. Plans in progress. Architect, T. H. Atherton, 139 East Main street, Wilkes-Barre, Pa. Owners, Commonwealth of Pennsylvania, Department of Property and Supplies, Frank St. Clair, Chief Engineer, Harrisburg, Pa. Brick, steel, 2 stories, 40x60 feet, slag roof, yellow pine floors, electric light, steel sash.

Armory (add.), \$15,000. Harrisburg, Pa. Plans in progress. Architects, T. H. Atherton, 139 East Main street, Wilkes-Barre, Pa. Owners, Commonwealth of Pennsylvania, Department of Property and Supplies, Frank St. Clair, Chief Engineer, Harrisburg, Pa. Brick, steel, 2 stories, 35x80 feet, slag roof, pine floors, steel sash.

Residence, Chambersburg, Pa. Plans in progress. Architect, R. A. Stair, 100 East Market street, York, Pa. Owner, Dr. T. Peters, 164 East Queen street, York, Pa.

Residence and Garage, North of Wayne, Pa. Plans in progress. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, Charles S. Ristine, Broad and Walnut streets, Philadelphia. Stone, 2½ stories and basement.

Dairy Barn, Buckingham, Pa. Plans in progress. Ready in spring, 1930. Architect, A. Oscar Martin, 20 Main street, Doylestown, Pa. Owner, name withheld. Concrete, steel beams, tile and stucco work, 1 story, 39x56 feet, Celotex, plumbing, lead roof, concrete and cork floors, iron work, insulation.

Residences and Garages (4), Springfield road, Springfield, Pa. Plans in progress. Architect, private plans. Owner, Isaac M. Weaver, Lownes Lane, Springfield, Pa. Brick and stone, 2½ stories, 27x38 feet, hardwood floors, hot water heat, electric light, tile work.

Nurses' Home, Allentown, Pa. Plans in progress. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Allentown State Hospital, Department of Property and Supplies, Harrisburg, Pa. Reinforced concrete, brick, steel, 3 stories and basement.

Residence and Garage, \$40,000. Latches Lane, East of Wynnwood road, Merion, Pa. Plans in progress. Architect, W. A. Wolcott, 324 North Charles street, Baltimore, Md. Owner, L. N. Gross, Montevista Apartments, Sixty-third and Jefferson streets, Philadelphia. Stone, 2½ stories.

High School (add.), \$110,000. Willow Grove, Pa. Plans completed. Project approved. Architect, T. Frank Miller, 1012 Walnut street, Philadelphia. Owners, Upper Moreland Township School Board, L. A. Lettinger, Supervising Principal, Willow Grove, Pa. Stone, steel, 1 story and basement. (Awaiting bond issue of November 5th.)

Apartment House and Garage, Twenty-first and Campbell streets, Chester, Pa. Plans completed. Owners taking sub-bids due November 15th. Architect, Leon Rones, 2133 North Natrona street, Philadelphia. Owners, Globe Construction Co., 1202 Race street, Philadelphia. Brick, stucco, 45x100 feet, 5 stories, elevator, hot water heat, electric work, tile, incinerator, kitchen equipment, refrigeration, linoleum and hardwood floors, slag roof, sheet metal work, garden pool.

County Home (Hospital add.), Media, Pa. Plans completed. Owners ready for bids in a few days. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Home, care of James J. Skelly, Media, Pa.

Stores (4) and Apartments (8), South High street, West Chester, Pa. Plans in progress. Will take bids January, 1930. Architect, W. J. Corcoran, 139 East Biddle street, West Chester, Pa. Owner, John C. Garrett, Jr., West Chester, Pa. Brick, 2 stories, 70x70 feet, hot water heat, electric light, tile, slag roof, hardwood floors.

Garage and Radio Service Station, New street and Schuylkill road, near Spring City, Pa. Plans in progress. Will be ready for bids in one week. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Jesse G. Yeager, Schuylkill road, near Spring City, Pa. Cement block, 1 story and basement, 30x50 feet, asbestos shingle roof, concrete floors, air compressors, hoists, steel shelving, stucco (heating, plumbing and electric separate), oil burners, steel sash, metal skylights, special power doors, show cases, plas glass.

Residences (3), \$30,000 each. Lapidea Hills, Pa. Plans completed. Owner ready for general bids in 1 week. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Louis Cole Emmons, Swarthmore, Pa. Stone, frame, 2½ stories, 28x65 feet, electric light, tile, marble, wood shingle roof, hardwood floors, hot water heat.

Lodge Building, Chestnut street and High street, West Chester, Pa. Plans about completed. Architect, William Corcoran, 139 East Biddle street, West Chester, Pa. Owners, West Chester Lodge, Loyal Order of Moose, care of architect. Brick and stone joist construction, reinforced concrete, 2 stories and basement,

79x50 feet, ornamental wrought iron, rubber tile, maple and composition floors, built-up roof, dumb waiter, refrigeration, central heat, electric work, hollow metal skylights, kalamain doors, roll up doors, steel stairs.

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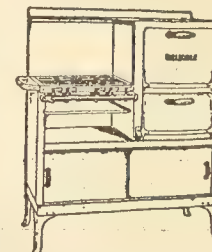
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Residence and Garage, Country Club road and Lapidee Hills, Swarthmore, Pa. Architect taking bids due November 9th. Architect, Edwin Rorke, Keswick Theatre Building, Glenside, Pa. Owner, Guy H. Newcomb, 126 South Front street, Phila., and 235 Kent road, Ardmore, Pa. Stone, steel, 2½ stories and basement, 87x36 feet, hot water heat, metal lath, tile, bond, steel casement windows, shingle roof, cement, oak and yellow pine floors, excavation, flagstone, concrete block, overhead garage doors, plumbing.

High School, Dickson City, Pa. Owners taking revised bids due November 9th. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Dickson City School Board, F. Wieland, Secretary, Dickson City, Pa. Fireproof, 2 stories and basement, 154x137 feet, slag roof, yellow pine floors, safety treads, roof ventilators, dampproofing, iron stairs, fire doors, steel sash and skylights, tile, terrazzo, metal lath (plumbing, heating and electric separate).

Garage and Show Room, South side High street, Pottstown, Pa. Owners about ready for sub-bids. Architect, S. W. Franklin, 17 West Main street, Lansdale, Pa. Owners, Jackson Motor Co., 202 South Hanover street, Pottstown, Pa. Brick and steel, 83x140 feet, electric light, concrete and slag roof, concrete floors, concrete ramps, metal bulks.

Hotel, Tenth and Hamilton streets, Allentown, Pa. Owners will be ready for bids on superstructure in ten days. Architect, W. L. Stoddard, 50 East Forty-first street, New York. Owners, National Realty Association, Tenth and Hamilton streets, Allentown, Pa. Fireproof, 7 stories, 75x205 feet, reinforced concrete roof, reinforced concrete and linoleum floors, hollow tile, elevators, safety treads, roof ventilators, waterproofing, architectural terra cotta, brass pipe, ornamental iron, iron stairs, fire doors, steel sash and skylights, tile, marble, terrazzo, metal lath, electric work.

Raub Junior High School, St. Cloud and Walnut streets, Allentown, Pa. Owners will be ready for bids this week. Architects, Ja-

coby & Everett, Commonwealth Building, Allentown, Pa. Owners, Allentown School District, D. A. Miller, President, Administration Building, Allentown, Pa. Fireproof, 3 stories, 109x33 feet, 39x65 feet, 30x48 feet, maple and composition floors, hollow tile, safety treads, roof ventilators, metal lath, tile, marble, skylights, fire doors.

Furniture Store, Souderton, Pa. Owners will be ready for bids soon. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Keystone Building Co., Souderton, Pa. Brick, steel, 4 stories, 60x112 feet, slag roof, yellow pine floors, hollow tile, elevators, dampproofing, cast stone, iron stairs, fire doors, tile work, vapor heat, electric light.

Nurses' Home and College, Bethlehem, Pa. Owners taking bids due November 14th, noon. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, St. Luke's Hospital, Major C. C. Davis, Superintendent, Bethlehem, Pa. Brick, steel, granite, limestone, 4 stories and basement, 143x54 feet, metal lath, tile, marble, terrazzo, hollow metal doors, slag roof, maple and cement floors, composition floors, plumbing, steam heating, elevators, linoleum floors.

Dye and Boiler House, Phoenixville, Pa. Architect taking revised bids due November 7th. Architect, Clarence Wunder, 1520 Locust street, Philadelphia. Owners, Phoenixville Hosiery Co., Phoenixville, Pa. Brick and steel, 1 story, 50x70 feet, slag roof, cement floor.

Telephone Building, 510 Welsh street, Chester, Pa. Architect taking bids due November 7th. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company, Nineteenth and Arch streets, Philadelphia. 4 stories and basement, brick, limestone, steel, 72x91 feet, steam heat, electric light, metal lath, rolled steel sash, bond, ornamental iron work, slag roof, cement floors, plumbing, demolition.

Factory, Montgomery, Pa. Owners taking bids due November 9th, 1 P. M. Architect, W. D. Shollenberger, 11-17 West Fourth street, Williamsport, Pa. Owners, Montgomery Indus-

trial Development Co., Mr. L. A. Henderson, Montgomery, Pa. Lessees, H. D. Bobb Co., 40-46 Leonard street, New York City. Brick, reinforced concrete, steel, 1 story, 132x158 feet (plumbing, heating, electric separate), metal lath, tile, built-up roof, concrete and maple floors, sissalkraft building, paper, kalamein doors, iron stairs, steel roof trusses, steel sidewalk sash, waterproofing, concrete block. Certified check, 5 per cent. Bond

Residence, Wynnewood, Pa. Architect taking bids due November 11th. Architect, Harold Edward Williams, Drexel Park, Pa. Owner, J. T. Guyer, care of architect.

Residence and Garage, Irvington road, near Huey avenue, Drexel Park, Pa. Owner taking sub-bids due as soon as possible. Architect, private plans. Owner, W. L. Davenport, 1519 North Fifty-eighth street, Philadelphia. Brick and frame, 2½ stories, 40x40 feet, hot water heat, oil burner, wood shingle roof, hardwood floors, wood sash.

Residence, Souderton, Pa. Architect, J. L. Landes, 200 South Broad street, Souderton, Pa. Owner, name withheld. Brick, 2½ stories, 27x35 feet, hot water heat, slate roof, pine floors, tile bath, wood sash. H. H. Minninger, 247 Franklin avenue, will build and will be ready for sub-bids in one week.

Residences (3 pair) (alts. and add.), Bryn Mawr, Pa. Owner will build. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Philip Harrison, 17 West Lancaster avenue, Ardmore, Pa. Consists of general interior alterations.

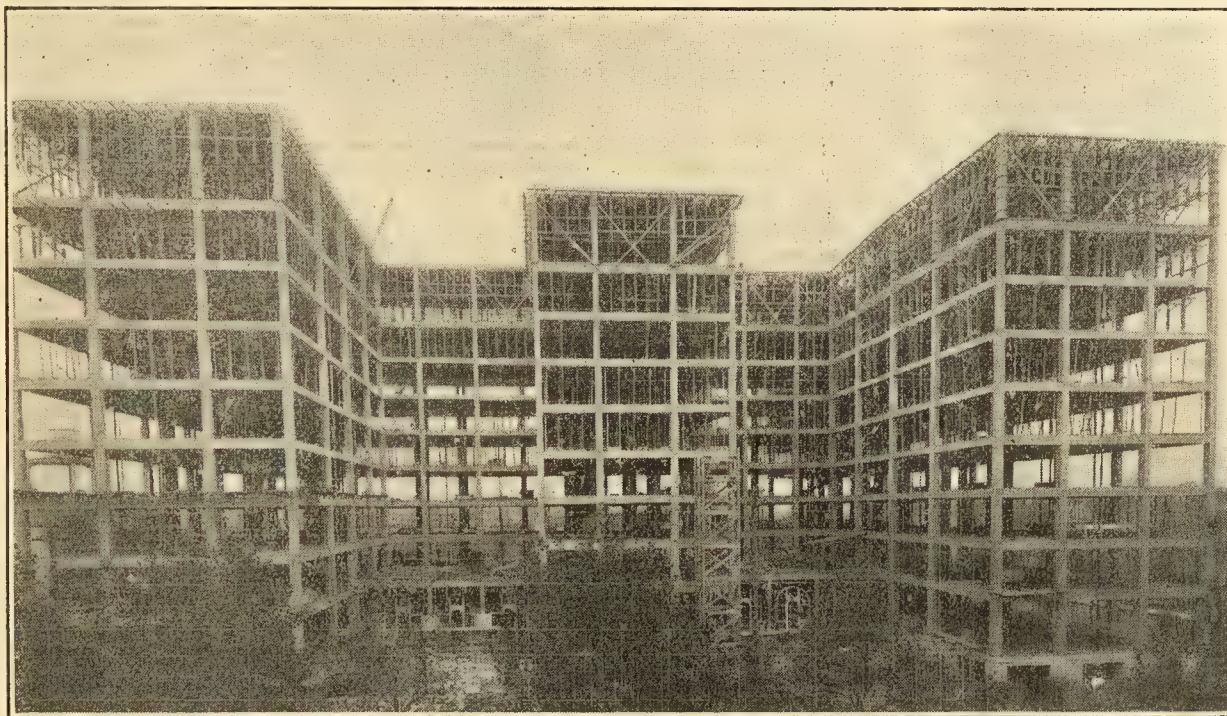
Store and Addition, Souderton, Pa. Architect ready for sub-bids in 10 days. Architect, Jerome S. Landes, 200 South Broad street, Souderton, Pa. Owner, Paul K. Fisher, Souderton, Pa. Brick, steel, 18x45 feet, hot water heat, electric light, built-up roof, concrete and pine floors, steel stairs, wood sash.

Residence No. 25, Wallingford Hills, Wallingford, Pa. Powell Construction Co., Ardmore, Pa., taking sub-bids. Plans in progress. Architect, private plans. Owner, Herbert T. Bassett, Plaza Trust Building, Philadelphia. Concrete block, stone, stucco trim, wood shingle roof, tile, hot water heat, electric light, hardwood floors, 2-car garage, maids' quarters, enclosed solarium.

Residence and Garage, Wallingford, Pa. Powell Construction Co., of Ardmore, Pa., taking sub-bids. Architect, private plans. Owner, Henry L. Smith, Swarthmore, Pa. Brick, 2½ stories, 27x77 feet x irregular, vapor heat, electric, (3) tile baths, shingle roof, hardwood floors, maids' quarters, sleeping porch.

Residence and Garage, North Wales, Pa. Owners taking sub-bids. Architect, private plans. Owners, Rorer Hoffman-Price & Bruner, care of J. Reiss Bruner, President, Union Chemical Works, North Wales, Pa. Stone, hot water heat, electric light, tile, steel sash, 27x37 feet, variegated asbestos shingle roof.

School Group (11), Hanover Township, Pa. Low bidder: A. J. Sordani, Forty Fort, Pa. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Hanover Township School Board, H. J. Williams, 23 Ridge street, Ashley, Pa. General repairs, heating, plumbing and electric work.



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Contracts Awarded

Residence and Garage, Lodge's Lane, opposite Cynwyd Road, Cynwyd, Pa. Contract awarded Wills Bill Co., 1502 Locust Street, Philadelphia, Pa. Architect, Alvin C. Bieber, 1520 Locust Street, Philadelphia, Pa. Owners, Mr. and Mrs. Edward B. Dougherty, care of architect. Stone, brick, cinder block, stucco, 2½ stories and basement, 73x42 feet, hot water heat, electric light, metal lath, tile and marble, bond, slate roof, oak and yellow pine

floors, excavation, concrete work, flagstone, steel and iron work, mahogany floors, celotex or insulite, shingle roof, tile roof, slate roof, California stucco work, plumbing, sewage disposal system, steel casement sash, linoleum floors.

Testing Laboratory Building, Harrisburg, Pa., \$114,500. Contract awarded Fred DeGroot, 269 Pepper Street, Harrisburg, Pa. Heating, J. H. Bowman, Penbrook, Penna.; plumbing, Herre Bros., Seventh and Emerald Streets, Harrisburg, Penna.; electric, C. M. Davis & Sons, 600 North Second Street, Harrisburg, Penna. Architects, Lawrie & Green, Odd Fellows' Building, Harrisburg, Pa. Owners, Department of Highways, Commonwealth of Pennsylvania, James L. Stuart, Secretary, Harrisburg, Pa. Reinforced concrete, brick, steel, two stories and basement, 150x72 feet, slag roof, concrete deck, cement floors, hollow tile, caulking, waterproofing, architectural terra cotta, coping, caststone, bond, kalamein and hollow metal doors, steel sash, metal lath, excavation, mastic floors, linoleum, steel lockers, vitrolite, metal stairs, sandstone, dumbwaiters.

Hydro Electric Plant, \$30,000,000. Safe Harbor, Pa. Contract awarded Arundel Corporation, Pier No. 2, Pratt street, Baltimore, Md. Engineer, J. A. Ellis, care of owners. Owners, Safe Harbor Water Corporation, care of Pennsylvania Water & Power Company, C. F. Clarke, President, Lexington Building, Baltimore, Md. Includes construction of dam costing \$4,300,000 and power house costing \$2,714,000, raising railroad tracks and equipment and transmission lines.

Foundry Building, Lebanon, Pa. Contract awarded Hughes-Foulkrod, 1505 Race street, Philadelphia. Architects, Wilbur Watson & Associates, Cleveland, Ohio. Owners, Lebanon Steel & Foundry Company, Cleveland, Ohio. Reinforced concrete, brick, limestone, steel, 2 stories and basement, 182x158 feet, rolled steel sash, iron work, concrete roof deck, concrete floors, excavation, grading, steel tumbler doors, hollow metal doors, tin-clad doors, Barrett specification roof, painting, hardware, metal toilet partitions.

Residence No. 120 (Garage), Wallingford Hills, Wallingford, Pa. Contract awarded Powell Construction Company, Ardmore, Pa., who are taking sub-bids. Architect, private plans. Owner, Herbert T. Bassett, Plaza Trust Building, Philadelphia. Stone, 2½ stories, 53x38 feet, hot water heat, electric light, wood shingle roof, tile and plumbing work.

Factory and Apartment, Souderton, Pa. Contract awarded Eli M. Utz, Telford, Pa. Architect, private plans. Owner, Preston G. Freed, Telford, Pa. Brick and frame, asbestos covered second story built-up roof, steel and wood sash, pine and cement floors, electric, plumbing.

Residence, Harvard and Dickinson avenues, Swarthmore, Pa. Contract awarded Elmer K. North, 216 East Fourth street, Media, Pa. Architect, Edwin G. Rorke, North Glenside, Pa. Owner, T. P. Fontaine, care of Louis Cole Emmons, Guernsey and Thayer roads, Swarthmore, Pa. Frame, 2½ stories, 21x31 feet, 8x14 feet, wood shingle roof, hot water heat, hardwood floors, tile baths.

Pumping Station, Pickering Creek, Pa., East of Phoenixville, Pa. Contract awarded F. H. Wilson, Ardmore, Pa. County Engineer, J. McCurdy (Bryn Mawr 1400), care of Phila. Sub. Water Co., Bryn Mawr, Pa. Owners, Philadelphia Suburban Company, Bryn Mawr, Pa. Brick, steel, 1 story, slag roof, cement floor.

Residence and Garage, Valley Forge road, Valley Forge, Pa. Contract awarded William Sauers, Phoenixville, Pa. Architect, John H. Mowere, 221 Bridge street, Phoenixville, Pa. Owner, Dr. S. W. Mackie, Buck Building, Phoenixville, Pa. Stone, 2½ stories, 30x40 feet.

Residence (alts. and add.), Gwynedd Valley, Montgomery County, Pa. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia. Architect, private plans. Owner, William Newbold Ely, Jr., Morris Building, Philadelphia. Tile, marble, structural iron work, slate roof, plumbing, painting and glazing, carpentry and mill work, excavation, electric work, hardware, hot water heat.

Store Building, 64 and 66 East Main street, Norristown, Pa. Contract awarded F. R. Heavener, Norristown, Pa. Architect, J. E. Sexton, Supervising Architect, Detroit, Mich. Owners, S. S. Kresge & Co., Detroit, Mich. Brick, steel, limestone, 2 stories, 58x143 feet.

Residence, Shavertown, Pa. Contract awarded A. J. Sordani, Forty Fort, Pa. Architect, L. V. Lacey, 45 Owen avenue, Forty Fort, Pa. Owner, W. H. J. McIntyre, 45 Owen avenue, Forty Fort, Pa. Veneer, 2½ stories.

Residence and Garage, Washington Lane, Fort Washington, Pa. Contract awarded Potts Brothers, Ambler, Pa. Architect, private plans. Owner, Allan H. Moore, Integrity Trust Company, Sixteenth and Walnut streets, Philadelphia. Stone and frame, 2½ stories and basement, 43x50 feet, hot water heat, electric, metal lath, tile, bond, ornamental iron work, shingle roof, oak and yellow pine floors.

Country Club (add.), Dallas, Pa. Contract awarded W. B. Richards, Simon Long Building, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Shrine Country Club, care of architects. Frame, 2 stories, 50x60 feet, shingle roof, pine floors, roof ventilators, waterproofing and dampproofing, incinerators, kitchen equipment, skylights, tile, terrazzo, electric light, steam heat.

Bank and Apartment, Parish and Hazel streets, Wilkes-Barre, Pa. Contract awarded E. J. Donohoe, Ashley, Pa. Architects, Mack

& Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owners, People's State Bank of Newtown, 694 Hazel street, Wilkes-Barre, Pa. Frame, 2 stories, 65x28 feet, built-up and asbestos roof, maple and composition floors, vapor heat, electric light, steel casements.

School, Bear Creek Township, Pa. Contract awarded Martin Bohensik, Plains, Pa. Architects, Knapp & Bosworth, Town Hall Building, Wilkes-Barre, Pa. Owners, Bear Creek Township School Board, A. F. Bond, Secretary, Bear Creek, Pa. Stone, frame, 1 story and basement, 24x42 feet, slate roof, pine floors, hot water heat, electric light, metal lath, bond.

Church, Fifth street, Allentown, Pa. Contract awarded M. A. Long Co., Commonwealth Building, Allentown, Pa. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owners, Grace Episcopal Church, Allentown, Pa. Stone, brick, steel, 1 story and basement, 111x70 feet, slate and asphalt roof, oak and concrete floors, metal lath, iron stairs, steel casement windows, cinder concrete block.

School, Citronia, Pa. Contracts awarded. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, South Whitehall Township School Board, O. N. Miller, President, 732 North Twenty-sixth street, Allentown, Pa. Electric awarded M. Ichmoyer, Allentown, Pa. Heating to J. E. Edwards, 908 Walnut street, Allentown, Pa.

Hospital (add.), \$100,000. Scranton, Pa. Contract awarded E. S. Williams, 342 New street, Scranton, Pa. Architect, H. A. Duckworth, 711 Linden street, Scranton, Pa. Owners, Moses Taylor Hospital, Quincey avenue, Scranton, Pa. Brick, stone, steel.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

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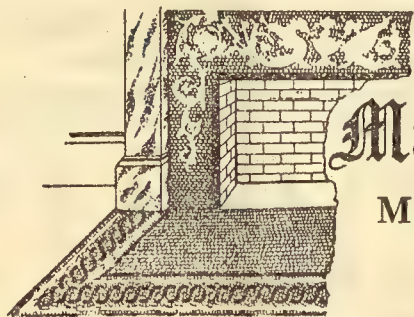
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Creek Township. Bridge over South Fork of Cross Creek. Excavation, concrete. Louis Costa, Dickerson Run, Pa., \$7,990.

Crawford County, R-258, Cambridge and Venango Townships. Two bridges over Little Conneauttee Creek and Big Conneauttee Creek. Roberts Supply Co., Lima, Ohio, \$83,556.37.

New Jersey Construction News

Superintendent's Cottage and Garage, Rahway, N. J. (N. J. State Reformatory). Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, Wm. J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, 2 stories and basement, 43x31 feet, wing 26x12 feet; garage 19x22 feet, slate roof, oak and pine floors, cement floors, caulking, waterproofing, damp-proofing, ornamental iron, bond, tile, marble, metal lath, linoleum, metal weatherstrip, steel casement sash. Low bidders: General, J. M. Wester, Metuchen, N. J., \$22,953; plumbing, Buist & Son, New Brunswick, N. J., \$2,960; heating, Buist & Son, New Brunswick, N. J., \$3,050; electric, Commerce Electric Co., Newark, N. J., \$1,334.

Treatment Building, Village of Epileptics, Skillman, N. J. Plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J.

Reconstruction of Present Hospital Building, New Jersey State Home for Boys, Jamesburg, N. J. Plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J.

Industrial Building for Occupational Therapy, Greystone Park, N. J. Plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J.

tutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J.

Institutional Garage and Chauffeur's Quarters, New Jersey State Home for Girls, Trenton, N. J. Plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J.

Hospital, New Jersey State Institution for Feeble Minded, Vineland, N. J. Plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Factory (add.), New Jersey State Institution for Feeble Minded, Vineland, N. J. Plans in progress. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J.

Administration Building, New Lisbon, N. J. Plans in progress. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J.

Colony Building for Housing Inmates of Farm, New Jersey State Hospital, Trenton, N. J. Plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J.

Dormitories 3 and 4, Leesburg Farm, Trenton, N. J. Plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J.

Male and Female Tuberculosis Building, New Jersey State Hospital, Trenton, N. J. Plans in progress. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, Trenton, N. J.

Passenger Station, Trenton, N. J. Work contemplated. Will mature in spring, 1930.

Architect, private plans. Owners, Pennsylvania Railroad, Pennsylvania Station, New York City. Stone, 2 stories. Details undecided.

Court House, Toms River, N. J. Work contemplated. Owners, Ocean County Board of Freeholders, F. G. Bunnell, County Clerk.

Station, May's Landing, N. J. Work contemplated. Architect, private plans. Owners, Pennsylvania Railroad, Fifteenth and Market streets, Philadelphia. Also concrete walks, between Taylor and Pennington avenues, May's Landing, N. J.

Office Building, \$1,000,000. Northwest Corner Broadway and Cooper streets, Camden, N. J. Plans in progress. Will be ready for bids in about one month. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, J. O. Wilson, Wilson Building, Camden, N. J. 12 stories, 123x50 feet.

Residence, Studio and Garage, Venice Park, Atlantic City, N. J. Plans completed. Owners will sublet. Architect, Christopher Clift, 1 South Tennessee avenue, Atlantic City, N. J. Owners, McClellan Studios, Venice Park, Atlantic City, N. J. Frame, stucco, 2 stories, 80x40 feet, Spanish tile and composition roof, tile and pine floors, architectural terra cotta, hot water heat, electric light, tile work, ornamental iron.

Cathedral, \$1,000,000. Probable site, Civic Center, N. J. Project approved. Owners, Excelsior Consistory. Ancient Accepted Scottish Rite of Free Masons, Frank J. Hinceline, 39 South Sixth street, Camden, N. J., Commander-in-Chief; H. L. Carter, Secretary. Auditorium will contain seating capacity for 1,500 people. Banquet hall, smoking rooms, social rooms, dressing and makeup rooms.

Hotel, Pinewald, N. J. Mr. F. B. Durang, General Superintendent, Pinewald, N. J., taking sub-bids as soon as possible. Architect, W. L. Oltar Jevsky, 130 West Forty-second street, New York. Owners, B. W. Sanger Hotel Corporation, 1457 Broadway, New York. Mr. F. B. Durang, General Superintendent, Pinewald, N. J. Reinforced concrete, brick and steel, stucco, 9 stories, mezzanine and basement. 292x103 feet, bond, excavation, integral waterproofing, hollow tile, waterproofing, bluestone, cast stone, damp-proofing, iron work and stairs, built-up roof. Spanish tile roof, cement floors, metal lath, plastering, stucco, maple floors, tile and marble work, kalamein doors, terrazzo floors, elevators, concrete roof deck, plumbing, steam heat, electric light.

Residence (alts. and add.), Frenchtown, N. J. Owner will build. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, George Eddy, Frenchtown, N. J. Frame, 2 stories, 18x25 feet, 19x32 feet, slate roof, hardwood floors, vapor heat, electric light, tile work.

Dennis Hotel, Atlantic City, N. J. Architects taking bids. Architects, Flanigen & Flanigen, 828 Lancaster avenue, Bryn Mawr, Pa. Owner, care of architect.

Dormitory (alts. and add.), New Jersey State Hospital for Women, Greystone Park, N. J. Owners taking revised bids due November 7th. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2 stories and basement, 61x50 feet, slag roof, metal window guards, caulking, hollow metal doors, tile, marble, metal lath, excavation, reinforced concrete, waterproofing and damp-proofing, cinder block, iron work, alberne stone, door and window screens, painting, glazing, steel toilet doors (plumbing, heating and electric separate).

Dormitory Building, Colony for Feeble-Minded Males, Woodbine, N. J. Low bidders. Architects, Division of Architecture and Construction, Trenton, N. J.

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struction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2½ stories and basement. C. J. Scully & Son, Wildwood, N. J., \$56,923; John M. Yardley, 1700 Walnut street, Philadelphia, \$60,782; Reisdorff Co., Tuckahoe, N. Y., \$79,200.

Bridges (5), Route 39, Sec. 8, Indian Mills to Great Swamp, Burlington and Atlantic Counties, N. J. Owners taking bids due November 18th at noon. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation piles, foundation excavation, concrete, structural steel, reinforcing steel. Certified check, 10 per cent. Deposit, \$10.

Bridge, Dorset street, over Inside Thoroughfare, Ventnor, N. J. Owners taking bids. Engineer, A. H. Nelson, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic County Board of Freeholders, F. F. Doughty, Director, Guarantee Trust Building, Atlantic City, N. J.

New Jersey Contracts Awarded

Service Station, \$3,000, S. W. Cor. Haddon and Crestmont Avenues, Camden, N. J. Contract awarded A. Raymond Raff Co., 1635 Thompson Street, Philadelphia. Engineers, Tide Water Oil Sales Corp., 11 Broadway, New York. Owners, Wood Manufacturing Co., 646 Erie Street, Camden, N. J. Block and stucco, one story, 15x24 feet, asbestos shingle roof.

Hotel Alexander, \$600,000. Beach Front, between Taylor and Andrews avenues, Wildwood, N. J. Contract awarded A. H. Winters, Inc., 1524 Chestnut street, Philadelphia. Architect, Charles H. North, 1709 Sansom street, Philadelphia. Owner, Alek McMurray, 3300 Atlantic avenue, Wildwood, N. J. Brick and steel, 5 stories and basement, 110 rooms, steam heat, metal lath, tile, slag roof, cement and oak floors.

Service Station, Fourth and Newton avenue, Camden, N. J. Contract awarded Carl E. Widell, Woodlyne, N. J. Engineer, T. J. O'Connell, American Building, Baltimore, Md. Owners, American Oil Co., American Building, Baltimore, Md. Brick, steel, 1 story, 16x12 feet, Spanish tile roof, cement, plumbing, waterproofing, gas steam heat, electric light, metal lath.

Garage, Storage Building and Fire House (alts.), Atlantic City, N. J. Contract awarded Atlantic Construction Co., Sovereign and Arctic avenues, Atlantic City, N. J. Architect, A. F. Amodio, Schwehm Building, Atlantic City,

N. J. Owners, City of Atlantic City, care of City Clerk, Tennessee and Atlantic avenues, Atlantic City, N. J. Brick, steel, reinforced concrete, 2 stories, 165x50 feet, Mansville asbestos roof, concrete floors, roof ventilators, waterproofing.

Store Building (alts.), 518 Federal street, Camden, N. J. Contract awarded J. T. Allen, Woodbury, N. J. Architect, Arnold H. Moses, 330 Arch street, Camden, N. J. Owners, Heaton Realty Co., 415 Market street, Camden, N. J. Brick and block add., 1 story, 12x20 feet, slag roof, copper store fronts, plate glass, terrazzo floors, slag roof, tile work, partitions, changing stairway. \$7,500.

Service Station (add.), \$3,000. 815 South Third street, Camden, N. J. Contract awarded Frank Valeriani, 259 Spruce street, Camden, N. J. Architects, Frank and Salvatore Gaudelli, 123 Cornell road, Audubon, N. J. Owner, Cipriano Moles, 815 South Third street, Camden, N. J. Brick, 2 stories add., 24x28 feet, slag roof.

Store, South Broad street, Trenton, N. J. Contract awarded E. A. Seidenglanz, 15 East State street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Philadelphia Bargain Store, Broad and Front streets, Trenton, N. J. General interior alterations, pine floors, partitions, steel.

Street Paving, Pensauken, N. J. Contract awarded Union Paving Co., 123 South Twenty-first street, Philadelphia, \$11,628.35. Architects, Remington-Vosbury-Goff, Camden, N. J. Owners, Pensauken Township, R. V. Peabody, Pensauken, N. J. 4,645 square yards 7-inch reinforced concrete paving, 100 square yards 6-inch concrete gutters, 1,150 cubic yards excavation, 1,750 lineal feet concrete curb, 6-inch, 75 lineal feet armored radial curb, 6-inch, 100 square feet sidewalks, 4-inch. Deposit.

Road Work, \$351,651.95. Route 31, Sec. 6, from Gladstone to Bedminster, Somerset County, N. J. Contract awarded Consolidated Prod. Co., Hackensack, N. J. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Earth excavation, rock excavation, reinforced concrete pavement.

Miscellaneous Construction News

Residence and Garage, \$125,000. Watch Hills, Rhode Island. Plans in progress. Too early for details. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia. Architect, Robert Rhodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Mrs. George Snowden, Bryn Mawr, Pa. Stone, steel, 2½ stories and basement.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 4, 1929.—SEALED BIDS will be opened in this office at 3 p. m., December 3, 1929, for mezzanine floor in the ninth street lobby of the U. S. Court House and Post Office at Philadelphia, Pennsylvania. Drawings and specifications may be obtained from the custodian of the building or at this office in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 1, 1929. Sealed bids will be opened in this office at 3 p. m., November 22, 1929, for metal partitions in the U. S. internal revenue building (building, bureau of internal revenue), Washington, D. C. Drawings and specifications, not exceeding six sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit is

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made of \$25.00 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

OCTOBER CONSTRUCTION IN PHILADELPHIA HIGHEST SINCE 1926

1,062 *Developments Started to Cost*
\$8,175,510, *Up* \$2,437,051 *Over*
Last Year

More construction was started in October than in any corresponding month since 1926, according to the official report of the Philadelphia Bureau of Building Inspection issued by Morris Brooks, chief of the bureau. It showed that 1,062 developments were started, at an estimated cost of \$8,175,510, which is an increase of \$2,437,051, as compared with October of last year.

Schools and office buildings contributed largely to the monthly total, although dwelling operations and industrial buildings also helped considerably. There were 221 houses started, at an estimated cost of \$952,000.

Last month's activity aided considerably in reducing this year's decrease. For the ten months of this year the report shows that permits were issued for construction costing \$92,374,935, as compared with \$100,057,635 for the same period of 1928.

A statement of the character of buildings with the number of permits, operations and estimated cost, follows:

	Permits	Oper.	Est. Cost
Dwellings—			
One-story	1	1	\$2,000
Two-story	31	211	895,500
Three-story	6	9	44,500
Manufactories	7	7	497,400
Workshops	1	7	258,300
Garages	103	108	263,850
Office Buildings	4	4	1,677,300
Stores	5	5	111,000
Warehouses	6	6	240,200
Schools	4	4	2,890,420
Clubhouses	1	1	50,000
Bank Buildings	2	2	68,000
Parish Buildings	1	1	70,000
Railroad Stations ...	1	1	130,000
Misc. Buildings	5	5	15,050
Additions	162	163	250,210
Alts. and Repairs....	227	231	236,330
Miscellaneous work..	191	200	214,190
Heaters	3	3	1,800
Fire Escapes	4	4	1,150
Signs	34	36	13,475
Laboratories	6	7	229,000
Oil Burners	45	46	15,835
Totals.....	856	1062	\$8,175,510

Annual Exhibition of Philadelphia Chapter of the American Institute of Architects and the T Square Club opened in John Wanamaker Store, Philadelphia, Friday evening, October 31.

A formal dinner, memorial to Milton Bennett Medary, was held in the Cornation Room, presided over by Howell Lewis Shay, vice chairman of the Joint Exhibition Board, in the absence of Nicola D'Ascenzo, chairman, who was out of the city.

Three hundred architects, engineers, builders and others interested in the development of Philadelphia from an architectural viewpoint, attended the dinner and exhibition of this, the thirty-second annual exhibition.

Walter H. Thomas, president of the Philadelphia Chapter of the American Institute of Architects, extended a welcome to those assembled and paid a very high tribute to Milton B. Medary as a man and as an architect and spoke of the lasting qualities of his work and the endearing memory in which Mr. Medary will ever live in the hearts of Philadelphia architects.

Mr. George Howe, president of the T Square Club in his delightful, dignified style, expressed similar feeling toward Mr. Medary and extended a generous invitation to all to visit the exhibition and exhorted all present to encourage the public to visit the exhibition so as to have a greater appreciation of architecture.

Mr. E. Herrick Hammond, president of the American Institute of Architects, spoke of the wonderful qualities of Mr. Medary and cited some personal experiences of various work with which he and Mr. Medary were associated. Mr. Hammond referred to the high principles exemplified by Mr. Medary in the office of president of the American Institute of Architects and emphasized the noble spirit with which Mr. Medary performed his duties, and the great example left for subsequent officers.

James Monroe Hewlett delivered the principle address of the evening on the "Life and Works of Milton B. Medary." His remarks were most impressive and intensified the feeling of love and admiration with which all who knew Mr. Medary hold him.

A memorial exhibit of Mr. Medary's architectural achievements contains a number of views of the Mountain Lake Carillon, Mountain Lake, Fla., as well as buildings in the Chicago and Princeton Universities.

Virtually every type of construction is on display, from charming types of Colonial architecture to the more pronounced modernistic trend, of which there are some fine examples. About eighty architects of this city, New York, Chicago and Los Angeles have contributed to the exhibit.

A number of designers in the allied arts, such as woodcarving, stained glass, modeling and wrought iron, also have their work on exhibition.

Besides the memorial group to Mr. Medary, there are exhibits of Edgar Seeler, Philadelphia architect, who died recently, and a sculpture by Charles Grafly, noted Philadelphia sculptor, who died some months ago.

A medal, the annual award of the Phila-

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delphia Chapter, American Institute of Architects, was awarded to Karcher & Smith, of this city, for their designs of dormitory buildings in the Swarthmore College group. E. Herrick Hammond, president of the American Institute of Architects; Walter H. Thomas, president of the Philadelphia Chapter, and John Harbeson, architects, formed a committee in choosing the award.

The Joint Exhibition Board in charge of this year's display is composed of Nichola D'Ascenzo, chairman; Howell Lewis Shay, vice chairman; George Wharton Pepper, Jr., secretary; D. Knickerbocker Boyd, managing director; James Bush-Brown, Harry Sternfeld, Herbert R. Leicht and Isabel M. McCoy, executive secretary of the Philadelphia Chapter, A. I. A.

The Joint Exhibition Board is to be congratulated on the 1929 year book issued in connection with annual exhibition and dedicated this year to the Memory of Milton Bennett Medary, whose charming photograph graces the page following the title page. The year book contains a rare collection of exquisite interiors, beautiful sketches of prospects, and gorgeous exteriors of completed work of many famous architects.

The year book should be in the library of every architect, draftsman, engineer as well as in the home of every lover of beautiful things. The price, \$2.50, is trivial when the contents are considered.

MEETING THE ARCHITECT HALF WAY

*Advantages of Architect-Builder Corporation Told in Interview with
L. V. Boyd*

By L. K. DAVIS

"Cannot builders and architects share each other's problems in a manner that will benefit both?" I asked Architect Lawrence Visscher Boyd as my first question when seated in his office.

"If not, why not,—and what's to be done about it?"

Without giving him a chance to reply, I went on to present the other questions I had made up as a result of my talks with builders. They were:

"Does the architect 'high hat' the man who works from the plans and specifications?"

"Is the average builder too much tempted 'to go on his own' in matters of design?"

"Is the average architect often impractical to a degree that causes unnecessary structural complications?"

"Is architectural superintendence often an irritation instead of an aid?"

"And lastly, is the architect's service

free, particularly on small work, sometimes an excess cost which owners should not be asked to add to their other costs?"

He hesitated a moment as a result of this avalanche of questions, then replied:

"The first two questions cover most of your points," he said with a smile. "I'm glad you've asked them. Let me tell you why I believe there should be the closest sort of relations between architects and builders.

"An owner employs an architect with several definite things in view. He wants a building that, first of all, is right in its design. He wants its plan to meet special requirements. That settled, he wants the final cost to be reasonably close to a price he has decided he shall pay.

Co-operation is Essential

"If the architect is experienced in designing and following construction progress of the type of work for which he has been selected, the first important step has been made toward co-operation of the kind we're discussing. Architecture has become a highly specialized profession. There's architecture of distinctly city type, industrial architecture, institutional architecture, country and suburban architecture. Each is a subject in itself and has closely grouped problems of design and construction. When owners appreciate this fact more fully, perfect co-ordination between the architect and

builder ought to follow as a matter of course.

"The architect who gets into a field filled with structural problems that are entirely different from those in which he is well versed is apt to have difficulty in working closely as he should with the man who follows his plans and specifications. I believe that most failures in architect and builder co-operation could be traced to this as their main cause.

"Among the dozens of builders with whom I have worked, I cannot remember one who was not glad to have an experienced architect associated with his efforts from start to finish of the job. When I say 'start and finish,' I mean exactly that; and by 'start' I mean the very start, the time at which an architect has his designs in more or less preliminary form, and not at the final stage when plans and specifications are ready for an iron-clad estimate.

"In my own case, I learned early the value of going over the problems of structural as well as owner requirements with the men who later would be asked for bids. Many a time this has been done before even the rough sketches were submitted to the owner. It is surprising how many variations may come about during such discussions, particularly as affecting costs. Invariably they serve to work out economies in material and labor, and settle many questions which otherwise would

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become real difficulties with the work under way.

"The proper development of plans and specifications before actual estimates are required removes a lot of guesswork from a builder's calculations. It is almost sure to result in freedom from arbitrary demands, vague specification clauses and ambiguous statements which can cause so many troubles for everyone concerned.

"Once an architect and builder begin in this way, the most thorough kind of co-operation usually follows through each structural phase to final completion. Circumstances often arise in which the co-operative suggestions of the architect result in changes, sometimes on large scale, from which the owner receives more for his money than was originally contemplated. Many of these I have built into a permanent record, making them part of specifications used for the type of work on which they were first tried out.

How Architect Helped

"I have in mind one instance where an owner desired a beamed ceiling for his library after work had begun. The extra cost of planed and painted material for this unforeseen change raised immediate objection.

"Between us, the builder and I worked out the effect desired without increase of cost—rough but true hemlock joists of the second floor exposed, block-bridged, and colored tobacco brown by shingle stain!

"In another home of my design, a country home, the owner suddenly longed for wrought-iron latches and hinges on interior doors. That, too, raised a question of considerable extra cost.

"The builder and I talked it over. Then at a local hardware store we bought, for

15 cents apiece, a few enameled thumb-latches and hinges of the common stable door variety. These we tossed upon the red coals of a kitchen stove, turning them over every couple of minutes or so until the glistening black coating had burned away. The result was an almost unbelievably decorative effect in richly mottled iron. So the owner had what he wished, at a mere fraction of the price we had feared.

Made Saving for Builder

"Working closely with the builders, sharing their problems, has brought forth many structural efficiencies which without mutual co-operation would never have been realized, certainly not if superintendence had been made from a strictly architectural point of view.

"On such a simple interior accessory as baseboards, for example, builders and I have often repeated substantial reduction of material cost by using 5-inch instead of 10-inch boards. Those of one-half the usual specifications height serve their purpose perfectly and add besides a decided impression of greater-than-actual area in small rooms.

An Idea for Brick Laying

"New ways and means are constantly suggesting themselves to the architect who stays in close touch with the contractor. Years ago a builder and I discovered a way to lay the brickwork of hearths, porches, terraces and walks, which I have since always advised for work of this character. A base of rough concrete is first prepared. Over this is spread an even bone dry mix of equal parts portland cement and sand, one inch in depth. The bricks are placed and samped solidly. Then the entire surface is soaked to full

absorption from the fine sprinkler nozzle of a hose. The water of course, goes through the joint spaces, which should be kept open and free from cements and sand, to the dry mix. This forms a solid bond on the bottom and well up the sides of each brick, holding with a grip which defies disruption by time or weather. A further advantage in this method is the absence of surface staining.

"Another effective method which I have learned from builder associations is the easy and economical damp-proofing of exterior walls of brick or stone. Many a dollar has been spent by owners in trying to overcome the effects of moisture which, through capillarity, has climbed a wall from damp ground below the grade line. I have known many a splendid piece of stucco to require expensive repair or replacement because of repeated saturation by water that has risen ten and more feet above the foundations.

Finding Short Cuts

"In all work where there is even a remote risk of this occurring, I find contractors are only too glad to fall in with my suggestions that a course of roofing slate, edge butted to edge, be laid across the thickness of the exterior wall at a height of 6 inches above grade line. And I have yet to see the method fail.

"In many buildings where strict economy must govern the use of material, numbers of 'dodges' and 'short cuts' advised by the structurally minded architect may aid in gaining maximum effect at little cost. A striking example of this happened on one development for which I had been employed as supervising architect.

Improved Trusses

"For economy's sake, but with some misgivings, 3-inch floor joists had been specified instead of heavier material. These gave the floor centers of some of the larger rooms a most annoying 'spring.' The builder and I racked our brains for a remedy which would not pile up extras. Finally we hit on one that made these floors as rigid as concrete.

"7/8-inch x 3-inch strips were cut from waste lumber. Two of these were used to a joist, nailed diagonally across one side from opposite ends and meeting at a carefully mitered angle below the top of the joist exactly in the center of the span. These improvised trusses took up the thrust from the floor above and gave all the strength and stiffness of the heavier material, minus its added cost.

"The list of efficiencies made possible by thoroughgoing co-operation, you see, could be a long one. In it would be a great variety of worthwhile items, ranging possibly from extra chimney flues with paddle dampers for the elimination of kitchen heat and odors, to 'trapdooring' library floors beside fireplaces with al-



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most invisible bevel-edged hatches matching access to firewood kept ready for use on a stage of scantlings at foot or so below floor level.

"Architecture, building, allied trades and crafts, are not independent elements as some of us have come to believe. They should function together through intimate man-to-man contacts which, as I have found in my own experiences, must begin at the beginning and remain close-meshed until the owner takes possession. When this becomes more general, architects and builders will realize how much one depends upon the other."

In addition to the helpful suggestions made by Architect Boyd, we may well consider for a moment ways and means now being practiced in many parts of the country to bring about better feeling between the architect and the builder.

One of the outstanding examples is the New York Building Congress where representatives of the entire building industry co-operate in bringing about reforms in which all are interested. Monthly luncheons are held in which a speaker, whether architect, builder or engineer, discusses some problem of mutual interest. The contacts established at these meetings do much to help the various elements in the building business to get an understanding of each other's point of view.

After all, it is very apparent that no architect worth his salt has any desire to make the contractor lose money; it is, rather, to his best interest to maintain a friendly feeling with the builder. On the other hand, no intelligent contractor or sub-contractor can ignore the valuable information and help which he may obtain through contact with an architect.

Getting the Men Together

One very helpful suggestion that has been offered is that local builders' exchanges and other contractor-builder or-

ganizations make an effort to get in touch with architects in their communities. It is suggested that letters be written to the secretary of the local chapter of the American Institute of Architects or to leading architects, inviting them to attend luncheons or evening meetings of the builders. In return, representatives of the contractors' organization would be invited to attend meetings of the architects and the viewpoints of both groups be exchanged.—*Building Age*.

A great deal of objection to retail encroachment into residence districts is being overcome by merchants who are having their buildings designed to fit into the architectural scheme of the particular districts in which they are located, said Paul J. Vollmar, vice-president and treasurer of the Western Securities Company, Omaha, Nebr., speaking before the Sixteenth Annual Convention of the Mortgage Bankers' Association of America.

Merchants have found this new type of store unit to be a most powerful advertising feature that creates good-will in the neighborhood and gives a marked individuality to their location, said Mr. Vollmar, whose subject was "The Mortgage Bankers' Service in Co-ordinating Building Design with Loan Values."

Mortgage men must look at properties from the point of view of what they will be in five, ten, or fifteen years, and endeavor to judge their future status in comparison with the newer units of far away periods, said the speaker. This must be done because the mortgage banker wants to renew his loans when they mature and so should prepare for the future now.

Shower baths have a good credit standing with the mortgage banker, said Mr. Vollmar, for both men and women like showers. Tenants will pay for conveni-

ences but care must be taken in financing income property to see that the cost and quality of the equipment and finish are in keeping with the class and type of the building.

"Climatic conditions control construction types in many places," said Mr. Vollmar. "It is surprising the number of people who see some particular type of property which they like in their travels and insist upon duplicating it when they return home, irrespective of different climatic and building conditions. We must appraise property according to the type of construction best suited to the territory in which the loan is situated, not only to have a saleable unit but to have a satisfactory home for the owner."

Beauty, strength, permanence, flexibility, movability and economy, are the basic characteristics of best practice in bridge construction. This is forceably illustrated in a publication just issued by the American Institute of Steel Construction, which presents in illustration for the first time an extensive collection of bridges throughout the world.

"Steel," states the preface, "possesses the quality of beauty-potentiality in an unparalleled degree because its physical properties permit it to be fabricated into any desired form that is suitable for bridges without impairing its strength."

Great highways do more than develop traffic, they act as means of disseminating culture. We improve the design of the wayside stand and station and in some instances have gone to the expense to landscape the roadway. It is therefore becoming essential that the bridges be made more artistic. This publication is issued for the sole purpose of offering suggestions tending to improve bridge architecture.

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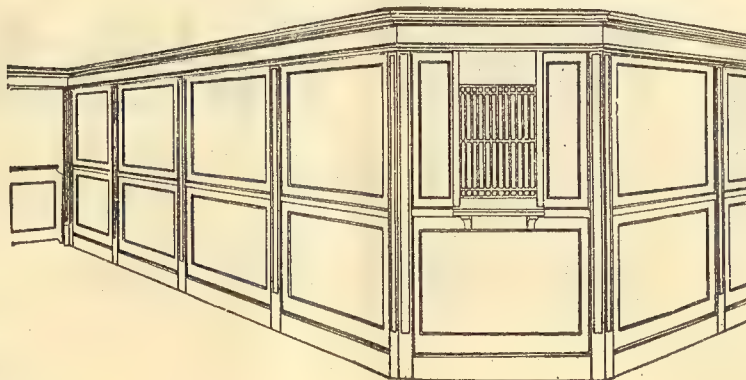
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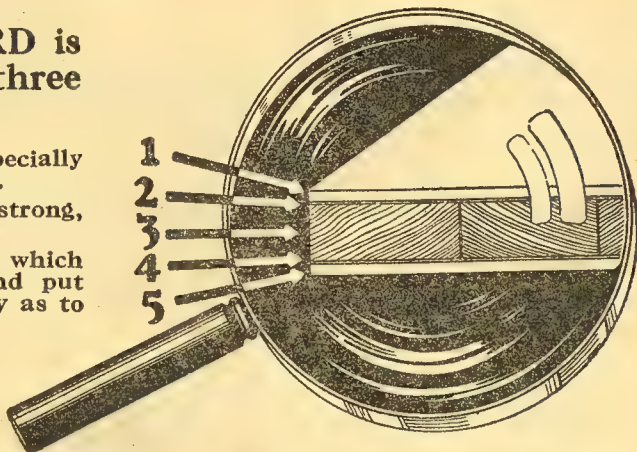
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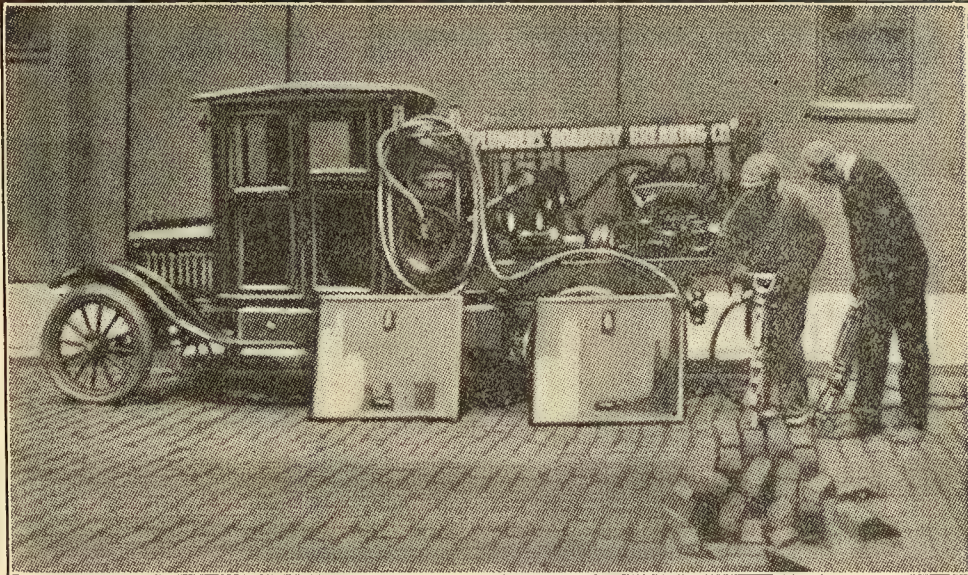
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 46

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PHILADELPHIA

November 13, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Manufacturing Building, Erie avenue and "M" street, Philadelphia. Plans in progress. Too early for detail. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Bachman Brothers, 609 Commerce street, Philadelphia.

Gasoline Station, Northwest Corner Ogontz and Wyncote avenues, Philadelphia. Plans in progress. Architect, private plans. Owners, Atlantic Refining Company, C. H. Ehlers, Engineer, 260 South Broad street, Philadelphia; C. J. Cutting in charge, 3144 Passyunk avenue, Philadelphia. Brick, 1 story.

Gasoline Station, Evergreen and Germantown avenue, Philadelphia. Plans in progress. Architect, private plans. Owners, Atlantic Refining Company, C. H. Ehlers, Engineer, 260 South Broad street; C. J. Cutting in charge, 3144 Passyunk avenue, Philadelphia. Brick, 1 story.

Stores (8), City Line, near Lancaster Pike, Philadelphia. Plans in progress. Owners, J. Franklin Moss & Co., 6225 Lancaster avenue, Philadelphia. Architect, private plans. Brick, 1 story, 20x60 feet, hot water heat, electric light, metal lath, slag roof, maple floors.

Maternity Hospital, South side Mifflin street, between Broad and Fifteenth streets, Philadelphia. Architect ready for bids in 2 weeks. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Agnes' Hospital, Sister Superior Mary Illuminata, Superintendent, Broad and Mifflin streets, Philadelphia. Stone, limestone, 5 stories and basement, T-shape, 170x46 feet, center wing 65 feet deep. Building Committee: Dr. B. C. Hirst, Chairman; Dr. William W. Van Dol-

sen, Dr. John M. Cruice, Dr. John A. McGlynn. Advisory Board: Dr. John A. McConnell, Dr. E. C. Murphy, Dr. Leonard Averett, Dr. J. W. Bransfield, Dr. A. S. Doyle.

Armory, \$25,000. Thirty-second and Lancaster avenue, Philadelphia. Plans in progress. Architect will soon take bids. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Pennsylvania State Armory Board, on premises.

Service Station, Northwest Corner Hunting Park avenue and Henvis street, Philadelphia. Work contemplated. Owners will build. Architect, private plans. Owners, Standard Oil Co., Public Ledger Building, Philadelphia.

Residence (alts. and add.), Elkins Park, Pa. Architects ready for bids in 2 weeks. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, William Rosenwald, care of Sears-Roebuck Co., Roosevelt Boulevard. Consists of general interior alterations and new addition.

Residence and Garage No. 5, Allen's Lane and Greene street, Philadelphia. Architect ready for bids in a week. Architect, Edwin Rorke, North Glenside, Pa. Owner, Walter S. Stuemfig, 5400 Wayne avenue, Philadelphia. Stone, 2½ stories and basement.

Shop Building, 4233-35 Ludlow street, Philadelphia. Owner will be ready for bids November 19th. Architect, private plans. Owner, William Uberle, care of Taylor-Nagle Co., 4238 Market street, Philadelphia. Brick, 1½ stories, 36x85 feet, hot water heat, slag roof, concrete floors, structural steel, plumbing, electric light, metal sash.

Theatre, 8 Stores, 15 Offices, Restaurant

and Dance Hall, North side of Allegheny avenue, East of Kensington avenue, Philadelphia. Architects ready for general bids in 2 weeks. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owner, Samuel Shapiro, 1218 Chestnut street, Philadelphia. Brick, steel, concrete, 1 story and balcony, 255x155 feet, concrete floors, demolition.

Theatre (alts.), 1527-29 Chestnut street, Philadelphia. Work contemplated. Plans in progress. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owner, Owner, care of J. T. Jackson Co., 37 South Sixteenth street, Philadelphia. Limestone, 1 story and basement, 64x163 feet.

Residence and Garage, Chestnut Hill, Pa. Architects taking bids due Nov. 16. Architect's Eng., Marshall & Tyler, 1524 Chestnut street, Philadelphia. Owner, Hamilton D. Carpenter, 600 East Phil-Elena street, Philadelphia. Stone, 2½ stories and basement, 40x75 feet, hot water heat, electric light, metal lath, tile, bond, slate roof, oak and yellow pine floors, steel casement windows, ornamental iron work.

Apartment House, Cliveden and Germantown avenue, Philadelphia. Graham Chambley Co., 3649 Filbert street, Philadelphia, only bidder, taking sub-bids. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owner, name withheld. Brick and steel, 4 stories and basement, steam heat, electric light, metal lath, tile, bond, steel casement windows, ornamental iron work, slag roof, oak and yellow pine floors.

Store Building, Northeast Corner Nine-

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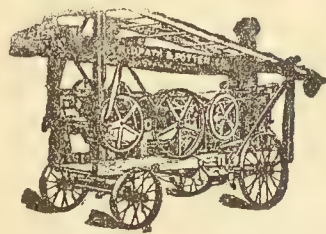
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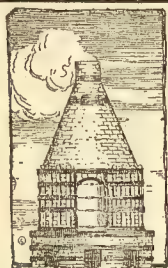
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teenth and Chestnut streets, Philadelphia. Architects taking bids due November 15th. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owner, David H. Cohen, 1211 Chestnut street, Philadelphia. Brick, limestone, steel, 2 stories and basement, 40x100 feet, metal lath, tile, bond, ornamental iron work, slag roof, yellow pine and cement floors.

Post Office (alt.), Ninth and Market streets, Philadelphia. Owners taking bids due December 3rd. Architect, James A. Wetmore, United States Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Mezzanine floor in the Ninth Street Lobby. Drawings and specifications can be obtained from Custodian of Building.

Specification No. 6048, Navy Yard, Philadelphia, Pa. Lieutenant Commander Bishop, Fourth Naval District, Navy Yard, Philadelphia, taking bids due November 27th. Architect, private plans. Owners, Bureau of Yards and Docks, Navy Department, Washington, D. C.

District Office Building (South Philadelphia), 2005-07 South Broad street, Philadelphia. Construction managers, United Engineers & Constructors, taking sub-bids due as soon as possible. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Electric Realty Corporation, care of Philadelphia Electric Company, Tenth and Chestnut streets, Philadelphia. Demolition, excavation, reinforced concrete work.

Show Room and Storage Building, \$15,000. 217 North Thirty-third street, Philadelphia. Permit issued. Architect, private plans. Owners, Keystone Index Card Co., 3223 Race street, Philadelphia. Brick, 1 story, 58x174 feet.

Residences (2), \$12,000. East side Cresco avenue, South of Fuller street, Philadelphia. Permit issued. Architect, private plans. Owner, Hyman Korman, Oxford avenue and Levick street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Garage, \$10,000. Southeast Corner Sixty-eighth and Yocum avenue, Philadelphia. Permit issued. Architect, private plans. Owner, D. Frank Taylor, Lansdowne, Pa. Brick, 1 story, 62x125 feet, slag roof, cement floors, electric work.

Residence and Garage, \$5,500. Southeast Corner Murray and Wistaria streets, Philadelphia. Permit issued. Architect, private plans. Owner, Frank Dietrich, Jr., 1823 East Hil-ton street, Philadelphia. Brick, frame, 2 stories, 27x56 feet, garage, 1 story, 10x18 feet, hot water heat, electric light, hardwood and pine floors.

Residence (alts.), \$3,000. 2452 Bryn Mawr avenue, Philadelphia. Permit issued. Architect, private plans. Owner, H. C. Dahl, 231 South Eighth street, Philadelphia. General alterations.

Residences (18), \$90,500. South side Seventy-fifth avenue, East of Fayette street, Philadelphia. Permit issued. Architect, private plans. Owners, Cutler & Ettinger, 4765 North Tenth street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Fire Station (alts.), No. 47, Improvements. 3025 Gray's Ferry Road, Philadelphia, Pa. **Fire Station (alts. and Imps.)** No. 48, 7th above Carpenter Street, Philadelphia, Pa. Owners taking bids, due November 21st. Architect, Wm. S. Covell, 1022 City Hall Annex, Philadelphia, Pa. Owners, City of Philadelphia, Department of Public Safety, Bureau of Fire, City Hall Annex, Philadelphia, Pa. Bids received room 903 City Hall Annex, Philadelphia, Pa. Bids opened 12th floor corridor, City Hall Annex, Philadelphia, Pa. Deposit \$10.00 each set, refunded. Bond.

Garage, West View Avenue and Lincoln Drive, Philadelphia, Pa. Architect taking bids, due as soon as possible. Architect, Harry Parker, 1120 Locust Street, Philadelphia, Pa. Owner, Charles DeCou, Jr., on premises. Stone, 2½ stories and basement, 20x40 feet, metal lath, ornamental iron work, slate roof, cement floors.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Motor Sales Building, Allegheny and Glenwood avenues, Philadelphia. Contract awarded

ed Nelson Pedley Construction Co., 1512 Chestnut street, Philadelphia. Architect,

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Eugene Stopper, 10 South Eighteenth street, Philadelphia. Owner, Charles Kahn, Sydenham and Locust streets, Philadelphia. Lessees, Brockway Motor Co., care of owners. Brick, reinforced concrete, 2 stories and basement, 100x150 feet, steam heat, electric light, kalamein doors, bond, slag roof, concrete floors.

Repairs to Receiver of Taxes Office, City Hall Annex, Philadelphia. Contract awarded McCormick-Lenham, Fortieth and Chestnut streets, Philadelphia, \$54,982. Architect, William S. Covell, City Hall Annex, Philadelphia. Owners, City of Philadelphia. Alterations and addition, new plumbing, bond, hardware, new radiators, hollow block, metal doors and trim, bronze work, iron work, metal furniture, marble, tile work, linoleum floors, plastering, wall finish, carpentry and mill work, painting and glazing.

Repairs United States Appraisers' Stores, 134 South Second street, Philadelphia. Contract awarded Thomas B. Monaghan, 2009 Sansom street, Philadelphia. Architect, private plans. Owners, United States Custom Service, Lincoln Acker, Custodian, Chestnut street, below Fifth street, Philadelphia. Painting, repairs to roof, carpentry and mill work, linoleum floors, general interior alterations.

Stores and Offices (2), Northeast Corner Broad and Glenwood avenue, Philadelphia. Contract awarded Harry Gill, Jr., 2515 Germantown avenue, Philadelphia. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owner, Joseph J. Greenberg, Northeast Corner Broad and Walnut streets, Philadelphia. Brick and steel, 2 stories, steam heat, electric light, slag roof, oak, yellow pine and cement floors. Plans in progress.

Residence (alts. and add. Studio), Chestnut Hill, Pa. Contract awarded R. C. Ballinger Co., 825 Walnut st., Phila. Architect, Edmund B. Gilchrist, 1618 Latimer st., Phila. Owners, H. H. Houston Estate, William Clarke Mason (tenant), on premises. Bond, demolition, excavation, stone masonry, reinforced concrete, flagstone, brick work, iron and steel, steel basement sash, metal lath, plastering, tile and marble, oak and yellow pine floors, linoleum floors, painting and glazing, plumbing, hot water heat, electric work.

Alterations, 5235-41 Whitby avenue, Philadelphia. Contract awarded Franklin M. Harris, 1520 Parrish street, Philadelphia. Architect, W. D. Price, 606 South Michigan avenue, Chicago, Ill. Owners, International Harvester Co., Erie ave. and F st., Phila., Mr. T. J. Harmon, Manager, care of owners. Carpentry and mill work, concrete work, brick, excavation, steam heating, steel and iron work, painting and glazing, plumbing, electric work.

Printing Plant (add.), 1006-08-10 West York street, Philadelphia. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia. Engineer, J. H. Byerly, Upper Darby, Pa. Owners, Shade Printing Co., on premises. Brick, 2 stories and basement (seating reserved), electric light, rolled steel sash, slag roof, 45x23 feet, slag roof, maple floors, plumbing.

Building, 75 West Johnson street, Germantown, Philadelphia, \$15,000. Contract awarded Willard Swaab, Inc., 11 South Sixteenth street, Philadelphia. Architect, Franklin Raudenbush, 266 South Sixteenth street, Philadelphia. Owners, Kemmerling Institute, on premises. Brick, steel, 3 stories, 21x93 feet 6

inches, slag roof, electric light, hot water heat. (Note changes.)

Manufacturing Building, "M" and Torresdale avenue, Philadelphia. Contract awarded William Steele & Son, Fifteenth and Cherry streets, Philadelphia. Architect, private plans. Owners, Artercraft Silk Hosiery Mills, on premises. Brick and steel, 80x106 feet, steam heat, electric light, rolled steel sash, ornamental iron work, slag roof, cement floors.

Store Building, 42 North Ninth street, Philadelphia. Contract awarded S. Yellin, 222 North Eleventh street, Philadelphia. Architect, private plans. Owner, David Corn, 6026 Market street, Philadelphia. Brick, steel, cast stone, 3 stories, 22x90 feet, slag roof, electric light, structural steel work.

Garage (add.), Nineteenth and Norris streets, Philadelphia. Contract awarded Quaker City Construction Co., Sixty-third and Chester avenue, Philadelphia. Architect, private plans. Owner, Y. W. Ralph, care of Norris Street Garage, Nineteenth and Norris streets, Philadelphia. Brick and steel, 3 stories, 50x60 feet, slag roof, cement floors.

Garage, \$40,000. 246 West Upsal street, Philadelphia. Contract awarded United Construction Company of America, 246 West Upsal street, Philadelphia. Architect, W. J. Massey, 246 Upsal street, Philadelphia. Owners, Elgart & Sorkin, 246 West Upsal street, Philadelphia. Brick and stone, 1 story, 58x341 feet, slag roof, cement floors.

Train Shed (alts.), \$26,000. East side Twelfth street, Market to Arch, Philadelphia. Contract awarded L. William Ewing Co., 4121 Worrell street, Philadelphia. Architect, private plans. Owners, Reading Company, Twelfth and Market streets, Philadelphia. General alterations.

Gas Station, \$3,000. Southwest Corner Olney avenue and Fairhill street, Philadelphia. Contract awarded A. R. Raff Co., 1635 West Thompson street, Philadelphia. Engineers, Tidewater Oil Co., 11 Broadway, New York. Owners, Station Realty Co., 5340 North Camac street, Philadelphia. Brick, 1 story, 24x15 feet.

Warehouse, \$5,000. Southwest Corner Main street and Walnut Lane, Philadelphia. Contract awarded E. L. Cuthbertson, 334 Roxborough avenue, Philadelphia. Architect, private plans. Owners, William Spink Co., on premises. Brick, 1 story, 28 feet 10 inches x 105 feet.

Garage, \$3,200. 167-69 West Norris street, Philadelphia. Contract awarded Peter Lesanto, 710 Alter street, Philadelphia. Architect, private plans. Owner, Raphael McKetto, on premises. Brick, 1 story, 19x64 feet, slag roof, cement floors, electric work.

Service Station, \$3,000. Southeast Corner Fifty-second and Whitby avenue, Philadelphia. Contract awarded James V. Antry, 5927 Chestnut street, Philadelphia. Architect, private plans. Owner, William A. Heim, 1524 Chestnut street, Philadelphia. Brick, 1 story, 16x17 feet.

Gas Station, \$3,000. Northwest Corner Fortieth and Powelton avenue, Philadelphia. Contract awarded A. R. Raff Co., 1635 Thompson street, Philadelphia. Owners, Station Realty Co., 5340 North Camac street, Philadelphia. Brick, 1 story, 24x15 feet.

Tank Support, \$2,000. 70-72 North Fourth street, Philadelphia. Contract awarded Reliance Tower & Tank Co., 230 Kent street, New York City. Owner, W. F. Bernstein, on premises.

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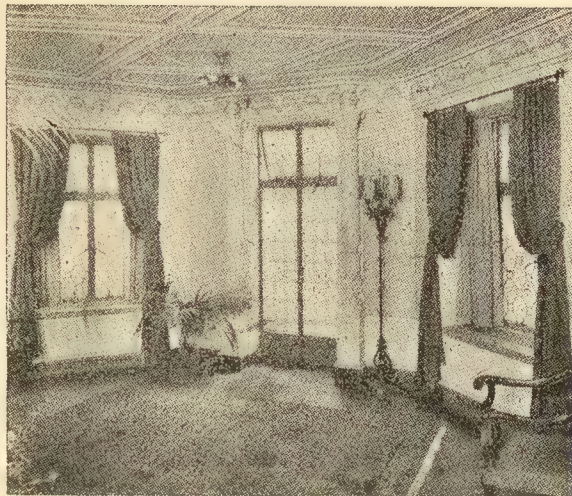
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Miscellaneous Road Work, Philadelphia, Pa. Contracts awarded. Owners, Bureau of Highways, Department of Public Works, City of Philadelphia, Pa., City Hall Annex, Philadelphia. Adams street, Tabor to Montour, Harrison, etc., Mazzola & Marano, 739 South Seventh street, Philadelphia, \$11,034.83. Cresson street and Merrick road, intersection, Elkins Paving Co., 834 North Holly street, Philadelphia, \$4,293.30. Dungan, Lycoming to Hunting Park avenue, Philadelphia, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$4,249.60. Master street, Second to Fourth street, Philadelphia, Elkins Paving Co., 834 North Holly street, Philadelphia, \$12,742.60. Green street, Second to Third, Fourth to Sixth street, Philadelphia, Montgomery Paving Co., Harrison Building, Philadelphia, \$23,436.25. Jefferson street, Broad to Tenth street, Philadelphia, Municipal Paving Co., Second and Wingohocking streets, \$25,975.42. York street, Front to Frankford avenue, Philadelphia, Barber Asphalt Co., 1600 Arch street, Philadelphia, \$28,897.46.

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Gasoline Station, \$10,000, east side of Torresdale Avenue, Bridge to Granite, Philadelphia, Pa. Contract awarded I. S. Grindrod, 10 South 18th Street, Philadelphia, Pa. Owners, Vacuum Oil Co., Mitten Building, Philadelphia, Pa. Brick, one story, 37 feet 4 inches x 28 feet.

Service Building, \$6,000, east side of Torresdale Avenue, Bridge to Granite, Philadelphia, Pa. Contract awarded I. S. Grindrod, 10 South 18th Street, Philadelphia, Pa. Owners, Vacuum Oil Co., Mitten Building, Philadelphia, Pa. Brick, one story, 23x18 feet 6 inches.

Manufacturing Building, \$6,000, northeast corner of Stokeley Street and Hunting Park Avenue, Philadelphia, Pa. Contract awarded Wark Co., 1608 Walnut Street, Philadelphia, Pa. Owners, E. G. Budd Manufacturing Co., 25th and Hunting Park Avenue, Philadelphia, Pa. Steel and concrete, one story, 21x120 feet.

Gas Station, \$3,000, southwest corner of Erie Avenue and K Street, Philadelphia, Pa. Contract awarded A. R. Raff Construction Co., 1635 Thompson Street, Philadelphia, Pa. Owners, Station Realty Co., 5340 North Camac Street, Philadelphia, Pa. Brick, one story, 24x15 feet.

Residence (add. and alts.), \$2,500, 2242 West Lehigh Avenue, Philadelphia, Pa. Contract awarded John Allen, 125 Herman Street, Philadelphia, Pa. Architect, private plans. Owner, John E. Brennan, on premises. Brick, third-story addition, 12 feet 6 inches x 19 feet, general alterations.

Storage Building, \$2,300, northwest corner Tacony and Devereaux Streets, Philadelphia, Pa. Contract awarded E. J. Bailey & Son, Duncan and Sepviva Streets, Philadelphia, Pa. Architect, private plans. Owners, Gillinger & Sons, Inc., on premises. Iron on iron, one story, 20x135 feet.

Pennsylvania

Construction News

Church, \$35,000, DuPont, Pa. Architect will be ready for bids in about two months. Architect, Theo. Preitz, 1301 Dartmouth Street, Seranton, Pa. Owners, Polish National Catholic congregation, care of Rev. J. J. Januszewski, 212 Wyoming Avenue, DuPont, Pa.

Garage and Show Room (alts. and add.), \$20,000, 521-23 South Centre Street, Pottsville, Pa. Architect will be ready for bids in a few days. Architect, D. H. Gootenboer, Schuylwill Tr. Bld., Pottsville, Pa. Owner, Spencer G. Pape, 19th and West End Avenue, Pottsville, Pa. Changing residence into Garage

and Show Room.

Garage (add.), \$8,000, 515-25 South George Street, York, Pa. Architect will be ready for bids in a few days. Architect, Will H. Swartz, 515 Prospect Street, York, Pa. Owner, Daniel E. Stetler, on premises.

Bridge, \$450,000. Location, Buttonwood Street across Schuylkill River, Reading, Pa. Plans in progress. Engineer, LeRoy H. Christman, Ganster Building, Reading, Pa. Owners, Berks County Commissioners, Ralph G. Matthews, County Clerk, Court House, Reading, Penna.

Church (completion), \$52,000, St. Clair, Pa. Plans in progress. Architect, D. H. Gootenboer, Schuylkill Trust Building, Pottsville, Pa. Owners, St. Michael's Greek Catholic Church, care of architect.

Store and Cafeteria (add.), 24 East Northampton Street, Wilkes-Barre, Pa. Plans in progress. Architects, Knapp & Bosworth, Town Hall Building, Wilkes-Barre, Pa. Owners, Percy A. Brown & Co., 26 East Northampton Street, Wilkes-Barre, Pa.

Hotel and Stores (alts.), 7th and Welsh Streets, Chester, Pa. Architect taking bids, due as soon as possible. Architect, C. W. Brazier, Crozier Building, Chester, Pa. Owner, Senator John McClure, care of architect.

Residence and Garage, Mather Tract, Havertown, Pa. Plans completed, ready for bids in a few days. Architects, Seeburger & Rabenold, 1524 Chestnut Street, Philadelphia, Pa. Owner, G. Herbert Taylor, Esq., 1518 Walnut Street, Philadelphia, Pa. Stone, brick and half timber, two stories, 30xirregular, vapor heat, electric light, tile and marble work, tile roof, hardwood floors.

Theatre, \$300,000, High Street, near Gray Street, West Chester, Pa. Preliminary plans in progress. Architects, Rapp & Rapp, 1501 Broadway, New York City. Owners, Warner Bros., Inc., H. F. Warner, President, 321 East 44th Street, New York City. Brick and steel, one and two stories and basement, seating capacity 1,500.

Twin Residences (4), \$44,000, 1732-36 Locust Street, Norristown, Pa. Permit issued. Owner will build. Architect, private plans. Owner, Wm. Winterbottom, Norristown, Pa. Brick, 16x40 feet, two stories, hot water heat, electric light, slag roof, hardwood floors.

Residence and Garage, Wyomissing, Pa. Plans nearly completed, ready for bids in a week. Architects, Seeburger & Rabenold, 1524 Chestnut Street, Philadelphia, Pa. Owner, Wm. B. Ehrems, Esq., care of architects. Stone, 2½ stories, 43x94 feet, electric light, metal lath, tile, bond, slate roof, oak and yellow pine floors, ornamental iron work.

Heating and Ventilating Units in High School, Upper Darby, Pa. Owners taking bids,

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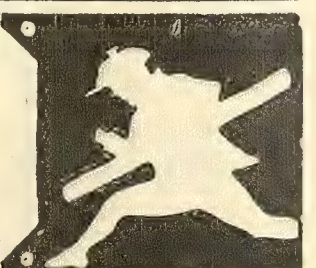
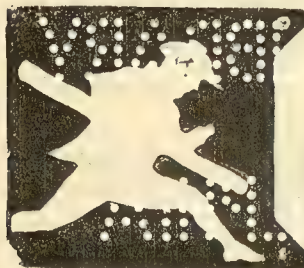
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due November 29th. Architects, Heacock & Hokanson, 1211 Chestnut Street, Philadelphia, Pa. Owners, Upper Darby School District, W. E. Sampson, Superintendent of Schools, High School Building, Lansdowne, Pa. Deposit \$10, refunded. Certified check 5% of bid. Bond.

Country Residence and Garage, \$75,000, Blue Bell, Pa. Plans in progress. Architect will be ready for bids January, 1930. Architect, A. C. Bieber, 1520 Locust Street, Philadelphia, Pa. Owner's name withheld. Stone, 2½ stories, 26x70 feet, 20x50 feet, vapor heat, electric light, tile and marble work, shingle and tile roof, hardwood floors, flagstone, wall finish, 4 bath rooms, artesian well, landscape gardening, road work, plumbing.

Residences (100), Allentown, Pa. Work contemplated. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Walter J. Wolf, 900 Franklin street, Pottstown, Pa. Brick, 2½ stories and basement, slag roof, oak and yellow pine floors.

Stores (2) and Apartment, vicinity Sixty-ninth and Walnut streets, Upper Darby, Pa. Work contemplated. Architect, not selected. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia.

Service Station, State and Burmont road, Aronimink, Pa. Work contemplated. Architect, private plans. Owner, Charles Kahn, Sydenham and Locust streets, Philadelphia.

Grade School, \$40,000. Myrtle avenue, Linwood, Pa. Plans in progress. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, School Board of Lower Chichester Township, H. C. Valentine, President, Linwood, Pa. Brick, 2 stories and basement, 4-room addition.

Residences and Garages (3), \$25,000 each. Canadensis, Pa. Plans in progress. Plans drawn by E. Kenny Crothers, State and Providence roads, Media, Pa. Owners, D. A. Young, 176 Ridgewood avenue, Glen Ridge, N. J.; W. LeMar Talbot, Twenty-fifth and Parkway, Philadelphia; Benjamin H. Ludlow, 1500 Walnut street, Philadelphia. Stone and frame, 2½ stories and basement. Sky Top Lodge Corporation, Canadensis, Pa., will build.

Residences (200), Pottstown, Pa. Plans in progress. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Walter J. Wolf, 900 Franklin street, Pottstown, Pa. Brick, 2½ stories and basement, hot water heat, electric light, slag roof, oak and yellow pine floors.

Residences (8) and Garage, Mt. Pleasant and Panorama roads, Villa Nova, Pa. Plans in progress. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, R. L. Murray, care of H. Belfield Co., 435 North Broad street, Philadelphia. Stone, 2½ stories, 30x90 feet, 26x75 feet, vapor heat, tile,

marble, tile roof, hardwood floors.

Masonic Temple, Conshohocken, Pa. Preliminary plans in progress. Too early for details. Architect, T. B. White, Otis Building, Philadelphia. Owners, F. and A. M., Fritz Lodge, No. 420, care of Paul D. Wrighter, Conshohocken, Pa.; R. C. Ronnan, care of Building Committee, 505 DeKalb street, Bridgeport, Pa. Brick, steel, 2 stories and basement, 50x100 feet.

Bank, Southwest Corner Broad and Third streets, Quakertown, Pa. Work contemplated in 1931. Architect, not selected. Owners, Merchants' National Bank, J. H. Shelly, President, Quakertown, Pa.

Gasoline Station, \$20,000. Lancaster, Pa. Plans in progress. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, General Tire Co., Inc., Roy Bitzer, 214 West Orange street, Lancaster, Pa. Tile, 2 stories.

School and Chapel, Lancaster, Pa. Plans in progress. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, St. Ann's Roman Catholic Church, Rev. Thos. L. McEntee, 925 N. Duke st., Lancaster, Pa. Brick, steel, 2 stories and basement, 10 rooms, maple floors, hollow tile, roof ventilators, electric light, metal lath, steel sash, fire doors, bond.

Cottage, Millersville, Pa. Plans in progress. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Millersville State Teachers' College, H. Edgar Shields, Secretary, 42 North Duke street, Lancaster, Pa. Brick, 3 stories, 40x60 feet, tile work, hardwood floors, hot water heat, oil burner, electric light.

High School (add.), Harper and Hilcrest streets, Morrisville, Pa. Owners taking bids due December 9th. Architect, Thomas B. Stockham, Stockham Building, Morrisville, Pa. Owners, School District of Morrisville, Pa., Mr. William Lair, President, Morrisville, Pa. Plans ready for general contractors in a few days.

Hotel and Stores (alts.), Seventh and Welsh streets, Chester, Pa. Architect taking bids due as soon as possible. Architect, C. W. Brazier, Crozier Building, Chester, Pa. Owner, Senator John McClure, care of architect.

High School Building, \$70,000. West Conshohocken, Pa. Bond issue approved. Owners ready for bids in a month. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Montgomery County Commissioners, Alvah S. MacKenzie, President, West Conshohocken, Pa. Brick, 2 stories and basement.

High School, \$150,000. Royersford, Pa. Bond issue approved. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford

School Board, Dr. J. A. Buckwalter, President; Mrs. M. Latshaw, Secretary, Royersford, Pa. Brick, steel, east stone, 2 stories and basement, 225x60 feet (plumbing, heating, electric separate bid), built-up roof, rolled steel sash, concrete and maple floors.

High School, \$150,000. Lansdale, Montgomery County, Pa. Bond issue approved. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Lansdale School Board, H. L. S. Ruth, President, Lansdale, Pa. Brick and steel.

Schools (2), 6 rooms each, \$30,000. Douglas Township, Montgomery County, Pa. Bond issue approved. Plans in progress. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Douglass Township School Board, H. Taggart, Secretary, Saussanville, Pa. Brick.

Agricultural Building, \$6,400. Hatfield, Pa. Bond issue approved. Plans in progress. Engineer, S. W. Franklin, Lansdale, Pa. Owners, Hatfield Consolidated School Board, Hatfield, Pa. Brick, 1 story, 30x60 feet.

Residence, Conshohocken-State road, near New Philadelphia Country Club. Work contemplated. Owners will build. Architect, Walter K. Durham, 312 South Broad street, Philadelphia. Owners, Durham & Irvine, 312 South Broad street, Philadelphia. 13-acre tract.

Art Building, \$200,000. Indiana, Pa. Owners will be ready for bids next week. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owners, Indiana State Teachers' College, C. R. Foster, Indiana, Pa. Brick, 3 stories, 137x64 feet.

Library (add.), \$50,000. Meadville, Pa. Architects ready for bids in a month. Architects, Charles W. Bolton & Sons, 1505 Race

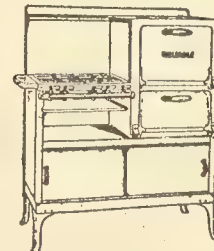
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street, Philadelphia. Owners, Allegheny College, Dr. J. A. Beebe, care of A. W. Thompson, 507 Park avenue, Meadville, Pa. Brick and steel, 2 stories and basement.

Residence, Bryn Mawr, Pa. Architects ready for bids. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, C. Donald Schwartz, Pennsylvania Building, Philadelphia.

Garage and Show Room, South side High street, Pottstown, Pa. Owners ready for sub-bids. Engineer, S. W. Franklin, 17 West Main street, Lansdale, Pa. (Please note correction.) Owners, Jackson Motor Co., 202 South Hanover street, Pottstown, Pa. Brick, steel, 83x140 feet, electric light, concrete and slag roof, concrete floors, concrete ramps, metal bulks.

Professional Arts Building, Reading, Pa. Architect will be ready for bids in a week or ten days. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, care of architect. Limestone, buff brick, steel, 9 stories, 30x135 feet, slag roof, concrete floors, tile work.

Apartment House (15 apartments), State road and Hazel avenue, Bywood, Pa. Owner will build. Work to start at once. Architect, W. Macy Stanton, Land Title Building, Philadelphia. Owner, Thomas Killough, Bywood, Pa. Brick, cast stone, 40x115 feet, vapor heat, oil burner, refrigeration, incinerator, Murphy beds, tile work, slag and copper roof, hardwood floors.

Completion of Basement, West avenue, Jenkintown, Pa. Architect taking bids due November 14th. Architect, Frank R. Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Owners, Church of the Immaculate Conception, Rev. Thomas F. McNally, Rector, Jenkintown, Pa. Bond, concrete slabs (treatment), excavation, plain and reinforced concrete work, cinder block, carpentry and mill work, hardware, painting and glazing, iron work, electric work, plumbing, steam heating.

Office Building, rear of Stambridge street, Norristown, Pa. Permit issued. Architect and owner, H. G. McMurtrie, 1321 Arch street,

Philadelphia. Brick, 2 stories, 18x43 feet, electric work, slag roof, maple floors.

Grade School (add.), Royersford, Pa. Low bidders. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford School Board, Mrs. M. Latshow, Secretary, Royersford, Pa. Brick, steel, hollow tile, 2 stories, 48x64 feet, slag roof, pine floors, roof ventilators, caulking, limestone, ornamental iron work, bond, hollow metal sash (heating, plumbing and electric separate). Roy Randall, Jenkintown, Pa., \$27,987; H. C. Shallcross, Gratersford, Pa., \$29,750. Heating and plumbing, Bullock Brothers, Royersford, Pa. Electric work, Gamble & Urner, Royersford, Pa. Contracts to be awarded November 15th, 8.30 P. M.

High School, Ringtown, Schuylkill County, Pa. Low bidder, Burton C. Cooper, Port Carbon, Pa., \$51,479. Plumbing and heating, American Heating & Ventilating Co., 1505 Race street, Philadelphia, \$9,095. Electric, B. T. Brown, Newtown, Pa., \$5,300. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owners, Union Township School Board, Washburn Snoich, Ringtown, Pa. Fireproof, 2 stories and basement, 135x76 feet, 110x33 feet, slate roof, maple floors, hollow tile, safety treads, roof ventilators, tile, metal lath.

Road Work, Pennsylvania. Owners taking bids due November 21st at 10 A. M. Owners, Commonwealth of Pennsylvania, Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Bucks County, R-386, Sec. 1, West Rockhill Township, 11,771 feet. Grading and drainage. Certified check, \$500.

Bucks County, R-155, Warwick Township. Bridge (1 span) over Little Neshaminy Creek. Excavation, borrow, bituminous surface treated macadam surface course, concrete, plain steel bars, fabricated structural steel. Certified check, \$1,000.

Chester County, R-142, Valley Township, City of Coatesville, 2,166 feet. One course reinforced concrete. Certified check, \$2,000.

Clarion County, R-311, Sec. 1, Perry Town-

ship, 11,727 feet. Grading and drainage. (1) Bridge. Certified check, \$1,000.

Clarion County, R-66, Porter and Red Bank Townships, 23,163 feet. One course reinforced concrete, 300 feet grading and drainage, (1) reinforced concrete bridge. Certified check, \$3,000.

Erie County, R-85, Conneaut Township. Bridge (3 span) over the Pennsylvania Railroad. Excavation, borrow, concrete, plain steel bars. Certified check, \$500.

Fayette County, R-429, Sec. 1, Nicholson and Georges Townships, Smithfield Borough, 29,983 feet. One course reinforced concrete, double span reinforced concrete bridge. Certified check, \$5,000.

Jefferson County, R-237, Sec. 2, Rose and Clover Townships, Brookville Borough, 21,863 feet. One course reinforced concrete, (2) bridges. Certified check, \$3,500.

Jefferson County, R-357, Sec. 1, Perry and Oliver Townships, 20,689 feet. One course reinforced concrete. Certified check, \$3,000.

Lancaster County, R-442, Elizabeth Township, 11,002 feet. Bituminous surface treated macadam surface course, (2) bridges. Certified check, \$2,500.

Perry County, R-191, Sec. A, Tuscarora and Saville Townships, 25,636 feet. Grading and drainage, (2) bridges. Certified check, \$1,500.

Potter County, R-318, Sec. 1, Genesee Township, 20,393 feet. Grading and drainage. Certified check, \$1,000.

Schuylkill County, R-85, Rush and Kline Townships, 1,527 feet. One course reinforced concrete. Certified check, \$1,000.

Tioga County, R-106, Delmar Township, Wellsboro Borough, 23,012 feet. One course reinforced concrete. Certified check, \$3,500.

Westmoreland County, R-480, Sec. 2, Derry Township, 15,427 feet. One course reinforced concrete, (1) bridge. Certified check, \$3,000.

York County, A-6518, Dover Township, 11,197 feet. Bituminous surface treated macadam surface course, (1) bridge. Certified check, \$1,500.

Road Work, Pennsylvania. Owners taking bids due November 22nd, at 10 A. M. Owners, Commonwealth of Pennsylvania, Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Bedford County, R-47, Sec. 4, East St. Clair Township, 1,950 feet. One course reinforced concrete. 315 feet grading and drainage, (1) bridge. Certified check, \$1,500.

Berks County, R-285, Spur, Greenwich Township, 39,311 feet. One course reinforced concrete, (6) bridges. Certified check, \$7,000.

Bucks County, R-659, Solesbury, Upper Makefield and Wrightstown Townships, New Hope Borough, 29,315 feet. Grading and drainage. (1) bridge. Certified check, \$1,500.

Cambria County, R-276, Sec. 4, B-1, Portage Township, Portage Borough. (1) Bridge (1 span), plate girder, over Conemaugh River. Excavation, one course reinforced concrete pavement, plain steel bars, fabricated structural steel. Certified check, \$500.

Clarion County, R-218, Sec. 3, Salem and Beaver Townships, Edenburg Borough, 25,142 feet. One course reinforced concrete, (2) bridges. Certified check, \$3,000.

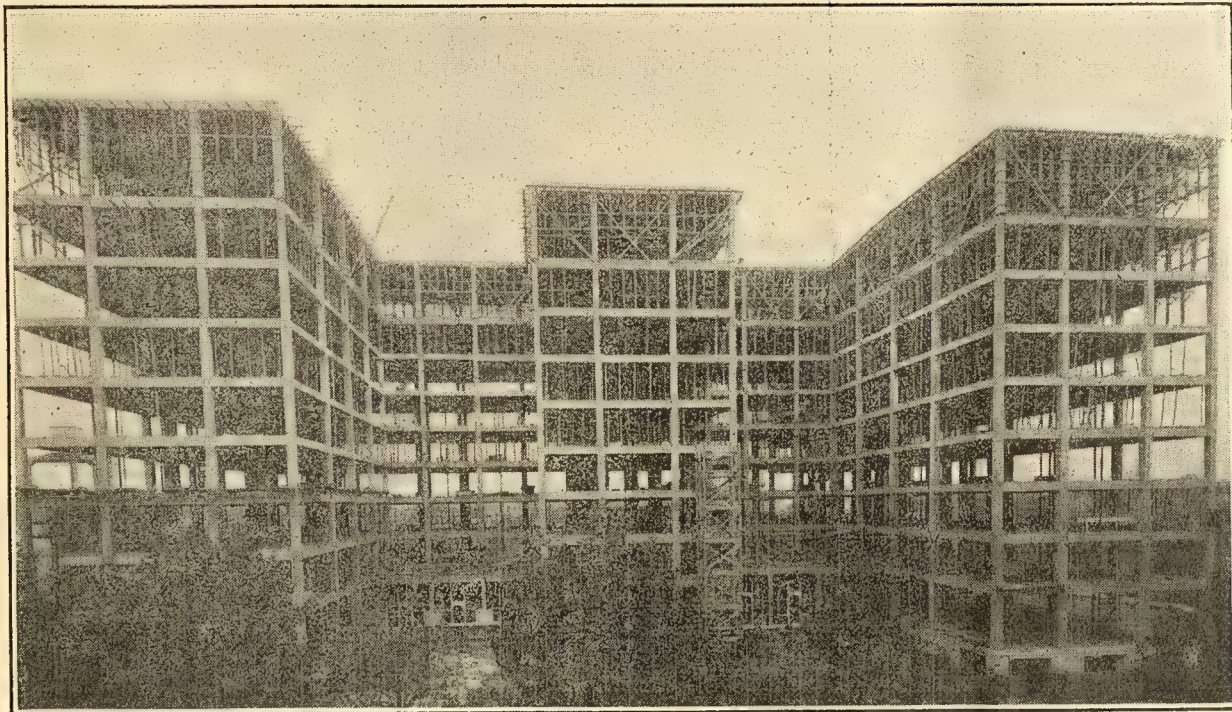
Dauphin County, A-6600, Jackson Township, 5,614 feet. Bituminous surface treated macadam surface course, 8,100 feet, grading and drainage. Certified check, \$1,000.

Erie County, R-496, Girard Township, 3,376 feet, grading and drainage. Certified check, \$2,000.

Juniata County, R-45, Spruce Hill and Turbett Townships, 25,961 feet. Grading and drainage. (1) bridge. Certified check, \$1,500.

Lycoming County, R-303, Moreland and Muncy Creek Townships, 21,331 feet. One course reinforced concrete, (3) bridges. Certified check, \$3,500.

Monroe and Northampton Counties, R-166, Sec. 2 and 5, Delaware Water Gap Borough, Upper Mt. Bethel Township, 26,434 feet. One



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course reinforced concrete, (2) bridges. Certified check, \$5,000.

Montgomery County, R-153, Whitmarsh Township, over Sand Run, bridge (2 span), reinforced concrete, beam, excavation, one course reinforced concrete, plain steel bars, concrete. Certified check, \$500.

Montgomery County, A-3961-A, Upper Dublin and Whitmarsh Townships, 1,718 feet. One course reinforced concrete. Certified check, \$500.

Potter County, R-104, Sec. 2, Homer and Keating Townships, 23,138 feet. Grading and drainage, (1) bridge. Certified check, \$1,500.

York County, A-6519, Hopewell Township, 10,642 feet. Bituminous surface treated macadam surface course. Certified check, \$1,500.

Sewer, Edgemont avenue, City Line to Twenty-fourth street, Chester, Pa. Owners will soon take bids. Owners, City of Chester, G. J. Hunter, Superintendent of Highway Department, Chester, Pa.

Pennsylvania Contracts Awarded

Demolition of Mill Building and Storage, \$2,000, Swede St., along River front, Norristown, Pa. Contract awarded Wm. Hoehn, Norristown, Pa. Owners, Phila. Suburban County Gas & Electric Co., Bryn Mawr, Pa.

Service Station, Airy and Green Streets, Norristown, Pa. Contract awarded M. B. Barr, Norristown, Pa. Architect, private plans. Owners, Acme Service Stations, Inc., West Conshohocken, Pa. Brick and cement, 36x76 feet.

Residence, Ridley Park, Pa. Contract awarded Arthur E. Jones, Dupont and Chestnut Streets, Ridley Park, Pa. Architect, private plans. Owner, care of builder. Brick and frame, 2½ stories, shingle roof, electric light, hardwood floors. Work to start spring 1930.

Fire House, Lewistown, Pa. Contract awarded W. B. Steinbaugh & Son, Lewistown, Pa., who will build if project matures. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owners, Brooklyn Fire Company, C. P. Smyker, President, Lewistown, Pa. Brick, steel, limestone, 3 stories and basement, 92x51 feet, metal lath, tile and marble work, terrazzo, hollow metal sash, kalamein doors, iron stairs, ornamental iron work, Johns Manville roof, cement and maple floors, bluestone, excavation, plumbing, steam heat, electric work.

High School (add.), Lemoyne, Pa. Contract awarded W. E. Bushey, Lemoyne, Pa., \$56,000. Electric, G. C. Kinsey, Lykens, Pa., \$1,789. Heating, F. E. Filson, 116 South Second street, Harrisburg, \$9,890. Plumbing, M. H. Baker & Co., 1330 Derry street, Harrisburg, Pa., \$1,225. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Lemoyne School Board, Mrs. J. E. Beale, President, Lemoyne, Pa. Brick, steel, 1 story, composition roof, maple floors, hollow tile, roof ventilators, bond, metal partitions, steel sash, metal lath.

Apartment House, Highland Park, Pa. Contract awarded P. Beccia, Drexel Hill, Pa. Work started. Architect, A. A. De Porreca, 1713 South Conestoga street, Phila. Owner, C. Petti, Highland Park, Pa. Brick, steel, limestone, 3 stories and basement, 130x28x28x-128 feet, irregular, hardware, plumbing, flagstone, ornamental iron work, bond, tile work, metal lath, slag roof, oak and cement floor.

Warehouse, Lancaster, Pa. Contract awarded D. S. Warfel, 452 North Prince street, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Lancaster Storage Co., 342 North Queen street, Lancaster, Pa. Fireproof, 6 stories, 35x65 feet, slag roof, concrete floors, eleva-

tors, electric light, steel sash, fire doors.

Store Front (add.), 15 Penn Square, Lancaster, Pa. Contract awarded D. S. Warfel, 452 North Prince street, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, E. W. Brown, 13½ Penn Square, Lancaster, Pa. Brick, stone, 3 stories, slag roof, rubber floors, roof ventilators, skylights, ornamental iron, bronze work.

Residence, East Market street, York, Pa. Contract awarded C. A. Monk, York, Pa. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, H. M. Plowman, 1239 East King street, York, Pa. Brick, 2½ stories, 36x28 feet, slate roof, hardwood floors, oil burner, electric light, tile work.

Store (alts.), Harrisburg, Pa. Contract awarded George Larson, 1904 Market street, Harrisburg, Pa. Architect, B. E. Starr, 7 South Second street, Harrisburg, Pa. Owner, J. Paul Charles, 1405 State street, Harrisburg, Pa. Brick, concrete, 1 story, 40x95 feet, concrete floors, steam heat, electric light, rolled steel sash.

Residence and Garage, Devon, Pa. Plans in progress. Contract awarded Townsend, Schroeder & Wood, 1700 Sansom street, Philadelphia. Architects, McIlvaine & Roberts, 112 South Sixteenth street, Philadelphia. Owner, Roland E. Lea, care of general contractor. Stone, steel, 2½ stories and basement, 24x137 feet, hot water heat, electric light, slate roof, oak and yellow pine floors.

Store Building, York road, opposite Homestead road, Jenkintown, Pa. Contract awarded Harry Murphy, Willow Grove, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Elkins-Shelbe Co., Jenkintown, Pa. Brick, steel, 1 story and basement, 116x40 feet (heating, electric and plumbing reserved), metal lath, tile, marble, rolled steel sash, bond, ornamental iron work,

cinder concrete block, slag roof, cement and maple floors, demolition, excavation, reinforced concrete, limestone, hardware.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Adams County, R-126, Mt. Pleasant, Oxford and Straban Townships. Bridge over Little Conewago Creek. Paul R. Hostetter Co., York, Pa., \$61,647.53.

Bedford County, R-46, Sec. 3A, Hopewell Township. Bridge over Yellow Creek. Whitaker & Diehl, Harrisburg, Pa., \$25,796.35.

Adams County, R-399, Reading Township, East Berlin Borough. Bridge over Conewago Creek. Smith & Fenstermacher, Allentown, Pa., \$54,369.10.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Northampton County, R-517 A-3909-6723, Upper Mt. Bethel Township, Portland Borough. One course reinforced concrete. Collins & Maxwell, Easton, Pa., \$82,314.82.

Armstrong County, R-203, Manor Township. One course reinforced concrete, one bridge. Russell Bros., Youngstown, Ohio, \$192,618.64.

Mifflin County, R-470, Granville Township. Grading and drainage. W. C. Rauch, Northumberland, Pa., \$91,574.22.

Blair County, R-53, Sec. R-2, Juniata Township. Bridge over Gap Run. Clark Bros., Cherry Tree, Pa., \$29,159.34.

New Jersey Construction News

School, \$78,000 to \$120,000, Runnemede, N. J. Bond issued voted on November 13th. Architect, not selected. Owners, School Dis-

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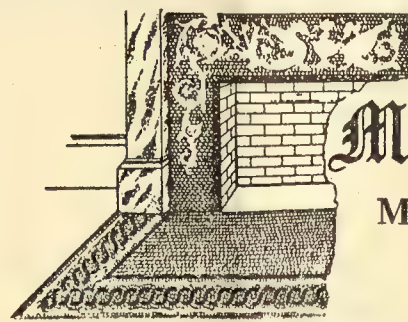
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trict of Borough of Runnemeade, Camden County, N. J.

Mission Chapel, Waterford, N. J. Architect ready for new bids in ten days. Architect, Emile G. Perrott, 1211 Arch st., Phila. Owners, Our Lady of Mt. Carmel Church, Rev. J. J. Lucetti, West Berlin, N. J. Frame, steel, 1 story, 65x33 feet, slag and shingle roof, pine floors, hot air heat, electric light, plumbing, painting, glazing, ornamental iron work.

Municipal Garage, Mitchell and Federal streets, Burlington, N. J. Work contemplated. Architect, not selected. Owners, Borough of Burlington, Albert Zimmerman, care of Police Committee, Burlington, N. J. Brick, steel.

Sunday School, Woodbury, N. J. Plans in progress. Architect will be ready for bids in 3 weeks. Architect, Office of John B. Thomson, 1321 Arch street, Philadelphia. Consultant, Henry E. Tralle, Hudson View Gardens, Pinehurst avenue, New York. Owners, First Presbyterian Church, Rev. George E. Gillespie, 44 Euclid avenue, Woodbury, N. J. Stone, brick, steel, 3 stories, 56x82 feet.

Store Building, King's Highway, East, between Tanner avenue and Mechanic street, Haddonfield, N. J. Architects taking bids due November 14th. Architects, Lackey & Hettel, 544 Federal street, Camden, N. J. Owner, Senator Joseph S. Walworth, Haddonfield, N. J. Brick, 2 stories.

Service Station, \$3,000. 589-91-93 Mickles street, Camden, N. J. Permit issued. Architect, private plans. Owners, Standard Oil Co., Newark, N. J. Tile and stucco, 1 story, 10x28 feet, tile roof.

Kitchen and Dining Room, New Jersey State Hospital for Insane, Trenton, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, New Jersey State Hospital for Insane, Mr. Atchley, Superintendent, Trenton, N. J. Brick, steel, reinforced concrete, 1 and 2 stories, 100x150 feet, slate roof, quarry tile floors, roof ventilators, waterproofing, area gratings, iron stairs, metal partitions, kalamein doors, steel sash, rotary ventilators, tile, metal lath. General, C. J. Smith Construction Co., 202 Academy street, Trenton, N. J., \$128,475. Plumbing, Burns, Lane & Richardson, New Brunswick, N. J., \$7,100. Heating, Burns, Lane & Richardson, New Brunswick, N. J., \$13,284. Electric, Peter G. Peifer, Trenton, N. J., \$5,170.

Armory, Camden, N. J. Low bidders. Owners, Division of Architecture and Construction, Department of Institutions and Agencies, W. J. Ellis, State Office Building, West Hanover street, Trenton, N. J. Brick, steel, 1 story, 200x30 feet, wing 41x20 feet, asbestos built-up roof, wood deck, cement and clay floors, caulking, cast stone, bluestone, cinder concrete block, ornamental iron work, steel casement window, bond, excavation, demoli-

tion, reinforced concrete, painting and glazing. Carl E. Widell, Woodlynne, N. J., \$20,700; J. M. Yardley, 1700 Walnut street, Philadelphia, \$20,819; George Bachman, 19 North Thirtieth street, Camden, N. J., \$20,893. Plumbing, William J. Kelly, 575 Mickles street, Camden, N. J., \$2,133.

Bridges (2), New Jersey. Owners taking bids due November 25th at noon. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, Sate House Annex, Trenton, N. J.

Route 21, Sec. 5, across Second River in Belleville, Essex County. Excavation, concrete, structural steel, reinforcing steel.

Route S-41, Sec. 3, at Kresson Lake, between Marlton and Berlin, Burlington and Camden Counties. Excavation, concrete, reinforced steel, foundation piles. Certified check, 10 per cent. Deposit, \$10.

New Jersey Contracts Awarded

Store and Office Building, Sixth and Cooper streets, Camden, N. J. Contract awarded Hunter-Shropshire, Inc., People's Bank Building, Philadelphia, \$42,000. Plumbing and heating to S. W. Peters, Woodbury, N. J., \$6,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Northwest Cooper Corporation, care of architect. Brick, steel, limestone, 2 stories and basement, 80x36 feet, 36x74 feet, slag roof, oak and maple floors, cement floors, linoleum, ornamental iron, metal bulks, metal lath, electric work, steel partitions, bond.

Apartment House, 19 South Pennsylvania avenue, Atlantic City, N. J. Contract awarded Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Charles F. Wahl, 33 South Pennsylvania avenue, Atlantic City. Brick, steel, 6 stories, 150x130 feet, concrete roof, concrete, pine and composition floors, elevators, safety treads, wood piling, waterproofing, cast stone, cinder concrete block, ornamental iron work, iron stairs, kalamein doors, steel sash, tile, marble, metal lath, steel work, steam heat, electric light.

Platform Shelters, Camden Terminal, Camden, N. J. Contract awarded Sinclair & Grigg, 1518 Walnut street, Philadelphia. Architect, William J. Cookman, Engineer, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station Building, Philadelphia.

Service Stations (2), \$6,000 total. Broadway and Jackson street, and 3326 Westfield avenue, Camden, N. J. Contract awarded A. R. Raff Co., 1635 Thompson street, Philadelphia. Owners, Station Realty Co., 220 Fifth

avenue, New York. Engineers, Tide Water Oil Co., 11 Broadway, New York. Block, stucco, 1 story, 15x24 feet, asbestos shingle roof.

Building, \$8,000. 210-12-14 Mickles street, Camden, N. J. Contract awarded Prince Concrete Co., 212 North Thirty-eighth street, Camden, N. J. Architect, private plans. Owner, P. J. McGuire, 28 South Fourth street, Camden, N. J. Block, 2 stories, 50x100 feet, slag roof, electric light.

Service Station, \$3,000. Southwest Corner Newton avenue and Federal street, Camden, N. J. Contract awarded A. R. Raff Contracting Co., 1635 Thompson street, Philadelphia. Architects, Tide Water Oil Co., 11 Broadway, New York. Owners, Station Realty Co., 220 Fifth Ave., New York City. Block, stucco, 1 story, 15x24 feet, asbestos shingle roof.

Bridges (5), \$87,868.85. Route 39, Sections 3, 4, 5 and 6, Burlington County, N. J. Contract awarded Atlantic Bridge Co., Greensboro, N. C. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Excavation, concrete, structural steel, reinforcing steel, pipes.

Miscellaneous Construction News

Stores and Offices (alts.), \$25,000, 1914-16 Broadway, New York. Architects ready for general bids November 13th. Architects, Stuckert & Co., 1600 Arch Street, Philadelphia, Pa. Owner, Elizabeth B. Hellman, 71 West 45th Street, New York City. Lessee, Bickford's Inc., S. L. Bickford, President, 362 West 50th Street, New York City. New granite, three stories, 58x50 feet, bronze bulk window construction, new partitions, plumbing, carpentry work.

School (colored pupils), Wilmington, Del. Plans in progress. Maturity indefinite. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, Delaware School Foundation, A. J. Taylor, Vice-President, DuPont Building, Wilmington, Del. Brick, 2 stories. Too early for details.

School (add.), Laurel, Del. Sketches in progress. Maturity indefinite. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, Delaware School Auxiliary, A. J. Taylor, Vice-President, DuPont Building, Wilmington, Del. Brick, 2 stories. Too early for details.

Hospital (additions), \$1,500,000. Farnhurst, Del. Plans in progress. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Delaware State Hospital, Farnhurst, Del. Too early for details.

Cottage, Stillpond, Md. Plans in progress. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owner, J. E. Mailer, care of architects. Frame, 2 stories, 50x22 feet, 48x28 feet, shingle roof, pine and maple floors, electric light, tile work.

High School (add.), Dover, Kent County, Del. Owners taking bids due November 22nd, at 3 P. M. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent of Public Instruction, Board of Education Building, Dover, Del. Brick, concrete, timber roof, 3 stories. Certified check, 5 per cent. Deposit, \$25 (refunded).

School (add.), Smyrna, Kent County, Del. Owners taking bids due November 22nd, at 2.15 P. M. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Board of Education Building, Dover, Del. Brick, concrete, 2 stories add., 103x38 feet, timber roof. Certified check, 5 per cent. Deposit, \$25 (refunded).

School Building, Clayton, Kent County, Del.

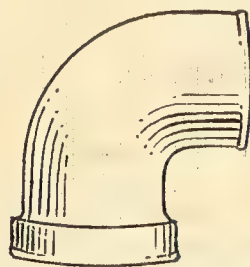
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Owners taking bids due November 22nd, at 1.30 P. M. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Board of Education Building, Dover, Del. Brick, concrete, 1 story, 138x118 feet, timber and slate roof, steel, iron, carpentry, painting (plumbing, heating, ventilating and electric separate). Certified check, 5 per cent. Deposit, \$25 (refunded).

Miscellaneous

Contracts Awarded

Office, Warehouse and Bakery, Washington, D. C. Contracts awarded. Architects, The Balingier Co., Twelfth and Chestnut streets, Philadelphia. Owners, Sanitary Grocery Co., Washington, D. C. Plumbing, Standard Engineering Co., Washington, D. C. Electric, H. P. Foley, 34 South Seventeenth street, Philadelphia. Sprinkler, Globe Automatic Co., 2035 Washington avenue, Philadelphia.

LOWEST BIDDER MAY BE MOST EXPENSIVE ONE

The man who intends to build a house for himself according to his own plans and specifications, should beware of the excessively low bidder. The lowest bidder is not always the best bidder, and this is especially the case where his bid runs very much below that of several other responsible builders who are competing with him for the work. The temptation to "skimp" on a cheap job is great and not always detected by the inexperienced eye. Here are some of the things which the owner risks not getting in a house constructed at the cheap price. First: He does not get good foundations. The sand or gravel is not clean or not sufficient cement is used. The footings are thin and rickety. Separate footings are not prepared for columns. Concrete bases are not devised for setting of wooden posts.

What happens? The walls crack or crumble. The bases of the wooden posts rot. The building settles.

Gets Inferior Walls

Second: He does not get good walls. If they are of wood, the braces and bridging are omitted; if of masonry, the mortar is weak, brick courses are crooked, bricks not fully bedded. Siding used to finish the walls in thin-inferior wood. Adequate insulation is omitted or, if used, is not tightly sealed. Sheathing paper is not flashed around the openings. Joints between courses of paper are not made wind and rain proof. Two nails are used where four should go.

Then the walls get out of plumb. Plaster cracks, mortar washes out. The brick work looks "drunk and disorderly." The siding cracks. Walls collect moisture and heat is lost. The house gets old and cold before its time.

Third: He does not get good beams or joists. Bracing and bridging are omitted. Inferior grades of lumber are used. Sizes are reduced. The sub-floors are not run diagonally. Doubled joists are not run

around the chimney stacks and stair wells or under partitions. Without good supports the floors must sag and creak. Plaster will crack. If the contractors use 2 by 8's in place of 2 by 10's for the second floor joists you cannot find the difference in the lumber bill, but you can find it in the cracked ceilings. Light pieces to support heavy loads cannot be seen when nicely painted over. But they show up later on.

Poor Roof Causes Trouble

Fourth: He does not get good plaster. The lath is not spaced properly for plaster keys. Lower grades of lath are employed. There are no metal re-enforcements at angles and in the corners. Then the plaster is too thin. It is not pressed into the lath spaces. It is not finished straight and true. Tool marks show. The edges of the plaster shows around the casings.

Common plastering is not a fine art, but FINE plastering is not common. On a cheap job it will crack, bulge, come loose, fall off. Poor lath, stains plaster. Where the re-enforcement is omitted there will be a crack. Rough places in the plaster will always show.

Fifth: He does not get good roofing. Thin, flat-sawed wood shingles are substituted for the thick-edge grain quality specified, or lightweight felt and asphalt composition shingles displace the heavier weights of this type of roofing. Metal flashings are not turned under the siding or into brickwork. Drain troughs are of lighter metal not pitched to drain.

Then shingles curl, let water down or catch fire brands and the house burns up or the metal rusts out. The roof leaks.

Sixth: He does not get good painting or paint is put on too quickly or in coats that are too thick. Substitutes are employed. The paint film itself is of poor quality, not brushed into the wood. Nail holes are not puttied up. Sanding between coats is omitted. The paint film

crazes, chips and falls off, collects soot and dust too quickly, knot holes show through.

Seventh: He does not get good millwork. The wood finish is rough and splintery. Pieces that should be locked together are only nailed. Hammer marks show. Doors and drawers do not fit. Stairways are put together with nails instead of wedges and glue. Floor boards are not driven up close together. The floor is not sanded smooth. Wood work is not thoroughly kiln dried. Pieces to be stained are not selected for grain and color. There is as much difference between grades of millwork as there is between automobiles. The cheap contractor buys his where it costs the least. Of course it is splintery, drawers do not pull readily, the stair squeaks, cracks appear between the flooring strips. The wood in the "cabinet work" shrinks and falls apart. Doors peel off.

Inferior Plumbing Costly

Eight: He does not get good plumbing. Joints are not caulked tightly. The piping itself is too thin. Pipes are not properly pitched to drain. The enamel finish on the fixtures is rough and uneven. The frame work of the house is cut for pipes without regard for consequences. Then look for leaks and ruined decorations. Be prepared to call in the plumber to rod out stopped piping, to worry over fixtures you thought were of the best. The hacked out joints may fail.

Ninth: He does not get good heating. The furnace is not set properly. Joints are not made gas tight. The pipes are not insulated. Pipes are not pitched to drain, are too small. Light weight metal is used. It may look like the finest job, but it leaks gas and smoke, ruins draperies, takes more coal to heat. Or the radiators knock—do not heat quickly.

These are only a few of the things he does not get. They are principally matters of workmanship, though in some

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cases inferior materials are substituted. Unless the owner is a technically trained man and knows material and workmanship or has some one on the job to represent him who does know these things, the cheap contractor can do his worst without the owner being aware of it.

The lowest bidder may be the most expensive one!

—East Bay Builder.

Citing the recent marked decline in construction activities throughout many sections of the country as offering a very advantageous market in which home owners and especially persons of moderate means can take inventory of their homes and plan a proper modernizing program for the home and its complete equipment, Dwight L. Hoopingarner, Executive of the American Construction Council, made public a statement giving suggestions to home owners on this important phase of building construction. This statement, issued as part of the Council's regular series of articles to the public on better building and reconditioning of homes, says:

"With the seasonal decline in certain major types of building construction, the home owner now has a very advantageous market in which to plan, finance and conduct a thorough home-modernizing campaign at the least cost consistent with good design, good materials and good workmanship. Even a few hundred or a few thousand dollars wisely spent for this purpose, according to the size and requirements of the house, will not only modernize the house but often add greatly to its value. This is of great import-

ance, especially to the home owner of moderate means who cannot afford to buy or build a new home but wants additional facilities.

"Reconditioning or modernizing the homes, properly planned and carried out, serves the two-fold purposes of helping the home owner to conserve the investment in his house as to both its utility and its beauty, and of maintaining a healthy level of activity for the building industry which in turn is so important to the business of the country as a whole.

"In previous articles to the public, the American Construction Council has advised in detail as to what factors should initially be taken into consideration before deciding whether or not it will be profitable to invest much more money in the house; i. e., the general type and location of the house, the class of alterations desired, the relation of the present layout to the desired alterations, and the like.

"If after careful consideration of all such factors involved, it is decided to add to the investment in the house, it is strongly recommended that the service of a reliable architect be secured to draw up the general plans and specifications and supervise the work. The plans, which have to do with the general layout and style of the house, and the specifications, which tell definitely and exactly down to the smallest detail what materials are to be used and what methods of construction are to be employed, are very important. The plans and specifications are parts of the contract which the owner makes with the contractor and which he as the owner cannot afford to agree to until he thoroughly understands them and also knows what everything for the completed job will cost including materials and labor as well as contractor's charges and architect's fees and any necessary financing costs.

"After the owner has decided, with the

help and advice of an architect, what type of alterations are to be made and also determined the general design and exact specifications together with probable costs, it is then imperative that a reliable building contractor be employed on a definite contractual basis with all costs specifically included. Even though the plans and specifications are properly drawn, the man who has immediate charge of the work can still make a good job or a poor job according to the methods he uses in following out these plans. A well designed building is potentially a more valuable property, but only a well constructed building is the reality, and the resale value must be taken into consideration quite as much as present comfort and utility. A good contractor saves both time and money.

"Shopping around for the 'best price' does not necessarily mean the 'best deal.' Full value on the investment can be secured only with quality materials and good workmanship, in addition to good design and proper supervision. While cheap materials may present apparent economy in the beginning, they cause irreparable loss in the future because of heavy repair and upkeep, marked depreciation and low resale value. Proper uses of the various materials and methods of construction are very important. Generally speaking, trade-marked materials nationally recognized as standard are most acceptable and when such materials carry the manufacturer's own guarantee they can as a rule be used with much greater confidence. The home owner must remember that in the end he pays for quality materials whether he gets them or not.

"It cannot be emphasized too much that before starting to remodel, repair or redecorate his home the home owner should not do anything that involves substantial change without employing competent professional advice. The home owner can also get advice from reliable building material dealers, builders and building loan institutions in his community. Various local and national associations of manufacturers and distributors also render valuable service as to the best uses of their materials. Other agencies such as the Home Modernizing Bureaus, The Architect's Small House Service Bureau of the United States, Inc., and the U. S. Department of Commerce, furnish valuable information in their respective fields. A list of such associations and agencies with addresses, is obtainable from the American Construction Council.

"It is perhaps well to repeat that in addition to just what should be done and just how it should be done the home owner should not fail to get definite figures on just what it is going to cost. He should also make certain that everything is included at the outset so that there will be no extras to be thought of afterward and run the cost above what can be

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afforded. He should have everything in legal contract form before any final commitment is given. Also, proper provision should be made for the necessary financing of the completed job, which subject will be treated in the next article.

"NOTE: This is one of a series of articles giving detailed discussion of the various things, step by step, for the home owner to consider in reconditioning his home. The American Construction Council, in co-operation with the various branches of the construction industry, conducts a clearing house on information for home owners, builders and lenders of money, as to the best recognized principles and practices on better building and better financing of homes. If you are not certain where to get the right information yourself, write to the American Construction Council, 28 West 44th Street, New York City, telling them the size and kind of house you have under consideration and the general type of alterations you have in mind and they will put you in touch with the best sources of information for your special needs.

A CODE OF TRADE PRACTICE *Proposed for the Structural Steel Industry*

1. Definition

The structural steel industry includes any person, firm or corporation engaged in manufacturing, selling, distributing or erecting structural steel for construction purposes in the United States of America.

2. Proper Designs

It shall be considered unfair trade practice to recognize uneconomic or unsafe structural design. For the purpose of defining that which constitutes "proper" or "improper" structural design, a "proper" design shall fully meet requirements of good engineering practice; all architectural requirements, if any; all local building code requirements, regulations or governmental laws. Design drawings shall be fully dimensioned so as to locate every piece of steel, by at least one set of dimensions. For all classes of structures the various component members and details of design and any information of an unusual character shall be shown in sufficient detail so as to indicate clearly the fundamentals of the design. Design drawings shall be fully checked.

3. Materials

It shall be considered unfair trade practice to use or to substitute materials inferior in quality to those specified by the purchaser or to that required by the applicable governmental laws, rules and regulations in the territory affected.

4. Methods of Manufacture and Erection

It shall be considered unfair trade practice to use methods of manufacture and erection not in accord with the accepted

proper practice of the industry as set forth in the Standard Specifications and Code of Standard Practice of the American Institute of Steel Construction, Inc., or as set forth in the applicable governmental laws, rules and regulations in the territory affected.

5. Unit Prices

It is patent that more intelligent costs can be estimated where the character, scope, quantity and detail of the work is clearly defined. For which reason the industry urges that bids so far as practicable, be made on a lump sum basis from proper designs, but where such bidding is impracticable it shall be considered unfair trade practice to figure the final weight in any other way than the accepted practice of the industry as set forth in the Standard Specifications and Code of Standard Practice of the American Institute of Steel Construction, Inc.

6. Sales Below Cost

It shall be considered unfair trade practice to sell, or offer for sale, material below cost.

7. Dumping

It shall be considered unfair trade practice for steel distributors to sell their products in other than their usual markets at low discriminatory prices so as to restrict competition or create a monopoly.

8. Commercial Bribery

The following methods used for the purpose of effecting or concealing price discrimination, or for other purposes, shall be considered unfair trade practice:

(a) The payment, allowance or acceptance of secret rebates, commissions, credits, discounts or like concessions, whether in the form of money or otherwise.

(b) Understandings to do work or to furnish material on terms other than those set forth in the contract between the parties.

9. Misrepresentation

The following are such misrepresentations as have no place in fair and honest competition and shall be considered unfair trade practices:

(a) Misleading promises of delivery and performance that cannot reasonably be fulfilled and misleading statements of ability to perform work.

(b) Dissemination of information, false or misleading in any degree, relative to competitors' products, selling prices, credit standing, ability to perform work, or labor conditions among competitors' employees generally or in a particular locality.

10. Unrequested Bids

It shall be considered unfair trade practice to submit a bid without having been requested or invited so to do.

11. Check Bids

It shall be considered unfair trade practice to knowingly submit a bid after a contract has been awarded.

12. Reopened Bidding

It is general practice for steel distributors to submit bids to general contractors who in turn use the lowest acceptable price in making up their bids on the general contract. Many general contractors, after securing the general contract, then reopen the bidding and force a second active competition for the same operation, commonly known as "shopping."

It shall be considered unfair trade practice for a steel distributor to submit a bid to a general contractor or to an owner under conditions of reopened bidding as described herein.

13. Published Prices

The industry approves the practice whereby the manufacturers of plain material independently publish and circulate current price lists, and also notices of all advances and declines, and condemns any discrimination in price made to purchasers, whether subsidiaries of the man-

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ufacturers or otherwise, after making due allowance for differences in cost of servicing, selling, transportation and for credit risks, as it tends to lessen competition and to create a monopoly.

14. Standard Contract

Whereas, unfair competition in terms, as well as in price, is destructive to any industry and

Whereas, the steel constructor is constantly presented with contracts for furnishing and erecting material containing unfair and inequitable terms which often impose upon him liabilities that are in no way a part of his work, now therefore be it

Resolved, that a committee be appointed by this conference empowered to draft and present to the industry standard proposal and contract forms; and that such committee be ordered to proceed at once to such preparation.

15. Enforcement

Whereas, this industry assembled in this conference is primarily concerned with the future enforcement of the within regulations, and

Whereas, this conference approves the arbitration of controversies between members of the industry and those dealing with it, and

Whereas, complaints of violation of the within regulations should be made to governmental enforcement bodies only after the industry itself has attempted correction, now therefore be it

Resolved, that this conference request the American Institute of Steel Construction, Inc., as the body representing the greater part of the industry, to establish a tribunal to which all violations of these regulations shall be referred in the first instance for investigation and adjustment.

SOUNDPROOFING IN BUILDINGS

By F. R. WATSON, *Professor of Experimental Physics, University of Illinois*

Need for Soundproofing—The problem of soundproofing in buildings has received an increasing amount of attention in recent years, because of the insistence on the reduction of noise. The demand for quiet rooms in hospitals, hotels, and office buildings, the desirability of insulating music studios and rooms where disturbing sounds are produced, and the necessity for solving other problems for the control of noise have led to repeated inquiries by architects and builders for reliable information about effective methods of insulating sound.

Sound Insulation a Matter of Uncertainty—A number of perplexing problems are involved in the practical insulation of sound in buildings. The theory of the subject is incomplete, and practical attempts to secure effective soundproofing are not always attended with success, even though the constructions used are in accord with the theory and apparently have the elements of adequate insulation. Sound progresses with facility through the different solid materials in a building structure, in paths not easy to trace, and may be heard in positions quite remote from this source. This action, together with the extreme sensitivity of the ear, explain why the insulation of sound is a difficult matter.

Two Types of Sound to be Considered—The general problem of soundproofing involves a consideration of two types of sound: first, those that are generated in the air and progress through the air; and second, those that originate and progress in the building structure.

Insulation of Sounds in Air—Sounds

in air may be set up by a violin, the voice, a clarinet, etc., and then proceed outward from the source through the surrounding air to the boundaries of the room. Here the energy may be transmitted to an adjoining room in three ways: first, by passing through the air passages in ventilator pipes or other openings; second, by setting the separating walls in vibration so as to create sound waves on the further side; and third, as an elastic wave motion in which the pressures and rarefactions of the sound waves are transmitted from particle to particle in the wall and are communicated to the air on the further side. Experience shows that the escape of sound is usually greatest through the ventilation ducts, and that, unless these vents are arranged in some special manner to hinder the transmission, it is a waste of effort to install soundproof walls or floors or other special constructions. Next in importance to the ventilation of system, in the transmission of sound, is the vibration of walls. Sound pressures and rarefactions in one room set a wall in mechanical vibration, and the wall, in turn, sets up sound waves in the air on the further side. The action is more marked if the wall is thin or if it is in tune with the sound. The amount of energy transmitted by elastic waves is usually small compared with the transmission by the vents and by wall vibrations.

Sounds in air are quite effectively stopped by fairly rigid walls that do not have openings for pipes or ventilators. Such a wall stops sound because it presents a new medium, varying decidedly in density and elasticity from the air.

Vibrations in the Building Structure—The other sounds to be considered in soundproofing are the vibrations generated in the building structure by motors, pianos, elevators, street traffic, etc. These vibrations travel easily through the continuity of solid materials and, by setting up resonant movements in partitions or furniture, may create sound waves in air.

Insulation of Building Vibrations—It is more difficult to stop vibrations progressing in the building structure than those passing through the air. The effective method of control, as in the case of the sounds in air, lies in the interposition of a discontinuity in the path of the waves.

For instance, an air space in masonry is theoretically an effective barrier because of the marked discontinuity in elasticity and density between masonry and air. Practically, however, this arrangement is not effective because the discontinuity is not complete; the weight of materials necessitating a contact across the air space that allows easy transfer of the vibrations. An approximate solution is obtained, by inserting air-filled materials such as hairfelt, flax, sand, etc., which, while lacking the rigidity of solids,



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are still able to sustain a considerable load, and, because of the enclosed air, make a fairly complete break in the continuity of structure. Cork has been extensively used for this purpose because of its semi-rigidity. Other useful materials in this connection are Celotex, Insulite, Flaxlinum, and similar products.

Important Elements in Sound Insulation—According to the foregoing analysis, which is based on the theory of the subject, on experimental investigations, and on a consideration of practical constructions, the important elements to be sought for in soundproofing are:

1. A massive and rigid structure to minimize vibrations.
2. Walls, floors and ceilings that are continuous and sufficiently rigid to prevent transmission of sound.
3. Control of sound in ventilator ducts and other air passages.
4. Control of progress of vibrations in the building structure by means of discontinuities and sound-absorbing materials.

—Isolation.

BOOK REVIEW

Introduction to Business Management, by Herbert G. Stockwell, published by Harper Brothers, is an exhaustive treatise of the many phases of business, including the various types of business enterprises, the general basis of organization, the qualities which make successful executives.

The duties of the many officers, assistants and department heads are analyzed as to work, organization and possibilities for development, including steps that lead to positions of managerial type and then to executive positions of major proportions.

The object of the book is twofold: first to assist young men in business to learn about the jobs higher up, and secondly to stimulate the desire of those possessing managing ability into organized efforts to qualify as managers.

Introduction to Business Management abounds in so many helpful suggestions, so many sound principles that it actually teems with information. Any young man thinking of going into business cannot fail to accumulate endless help by carefully reading this invaluable volume on business management.

The liberal education contained in this book is a guide not only to young men starting in business, but many so-called executives can gain useful information that will help in the correct practices of business and business administration. The price of *Introduction to Business Management*, \$4, is trivial when the innumerable lessons and solutions of business difficulties and problems are considered. Individuals, firms, corporations of whatever kind, can profit greatly by having this book in their libraries as constant reference.

COMMERCIAL ARBITRATION TRIBUNAL FOR THE ENTIRE INDUSTRY NOW OFFICIALLY ESTABLISHED

At a regular meeting of the Committee on Commercial Arbitration of the Philadelphia Building Congress, held in Room 705, Manufacturers' Club at 2.00 P. M. on October 17th, 1929.

The following members were present and voting: Vice Chairman J. H. LaBrum, D. K. Boyd, D. F. Durkin, Jr., James Hamilton, J. G. Hitner, W. C. Smith, S. M. Swaab, Pope Yeatman, and Secretary H. J. Baringer. Regrets were received from Messrs. P. N. Arnold, E. M. Bassett, J. D. Cassell, F. G. Stewart, Wm. M. West and Chairman W. M. Conlen, who is now in Europe. The following were also present as guests: Messrs. F. M. Venzie, Warren Armstrong and Alfred Volker, Jr.

Vice Chairman LaBrum then read paragraph at a time, the first of the documents necessary in setting up a tribunal to function in accordance with the latest act of Pennsylvania Assembly. This is entitled

Regulations in Conduct

Discussion of these regulations was led by Mr. Durkin and after the fullest consideration and incorporation of minor changes, on motion of Mr. Durkin, seconded by Mr. Boyd, these regulations, as revised, were *unanimously adopted*.

The Secretary then handed the members present copies of the second document for the procedure of the Arbitration Committee entitled

Sets of Rules

Vice Chairman LaBrum read these by sections and following discussion, the same were, on motion of Mr. Durkin, seconded by Mr. Swaab, *unanimously adopted*.

The Vice Chairman then read a suggested

Specification and Contract Clause for future use and, following further valuable discussion, it was, on motion of Mr. Hamilton, seconded by Mr. Durkin, *unanimously adopted* with a recommendation that this clause be referred to the Congress' Committee on Contractual Relations for separate promulgation and added recommendation to all interests involved.

The Vice Chairman then referred to and presented in order, for use in any controversy now under way, a form of

Submission Agreement and Forms of Affidavit

for individuals, partnerships and corporations. It was, on motion of Mr. Swaab, seconded by Mr. Castor, *unanimously voted* to adopt these standards for submission and affidavits and that these standard forms be referred to the Congress' Committee on Contractual Relations for

such promulgation and advancement among all interests involved as they may deem advisable.

The Secretary then presented a list of those Associations and Organizations which had submitted names for the

PANEL OF ARBITRATORS

These consisted of 17 groups who had proposed the names of five of their members who would serve on a Panel of Arbitrators for the building industry when appointed by this Committee. It was, on motion of Mr. Swaab, seconded by Mr. Boyd, *unanimously voted* to appoint each of these men as recommended by these several organizations to the Arbitration Panel of the Congress and on further motion of Mr. Hitner, seconded by Mr. Yeatman, it was *unanimously voted* to confer on the Vice Chairman and Secretary, with power, the appointment of any additional persons to the panel when and as names are received from other recognized organizations allied with the building industry.

Mr. Swaab raised the question as to the election of a permanent Secretary of the Tribunal and it was unanimously voted to elect Mr. H. J. Baringer as the Tribunal Secretary.

On motion the meeting then adjourned at 3.45 P. M. with a rising vote of thanks to the Vice Chairman and the Secretary and with a universal expression of opinion that a most important step had been taken in benefiting all elements in the building industry.

Modern life, requiring as it does a multiplicity of types of structures, can be best served with structural steel. This, in short, will be the substance of a series of technical studies which are to be presented before the Seventh Annual Convention of the American Institute of Steel Construction when it convenes at Biloxi, Mississippi. Bridges, dams, power plants, factories, churches, theatres and other structures are all most economically erected with structural steel.

Henry Goldmark, consulting engineer of New York, who was among the first to use steel in building bridges, and who is most famous for having designed the lock gates of the Panama Canal, will discuss the use of structural steel in dams.

D. B. Steinman, consulting engineer of New York, who is internationally famous as an authority on long-span bridges, will discuss the problems of bridge engineering and their special application to structural steel.

Kenneth G. Merriam, assistant professor of applied mechanics at Worcester Polytechnic Institute, will present to the convening steel constructors some new light on the design of column slabs which he has been working out during the past year or two in association with Donald G. Downing, of Worcester.

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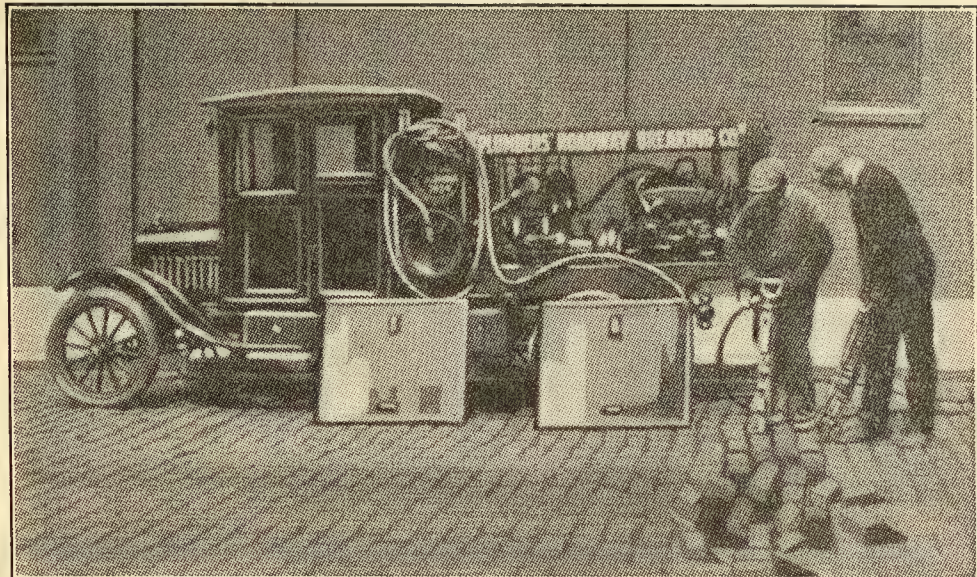
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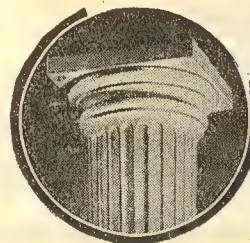
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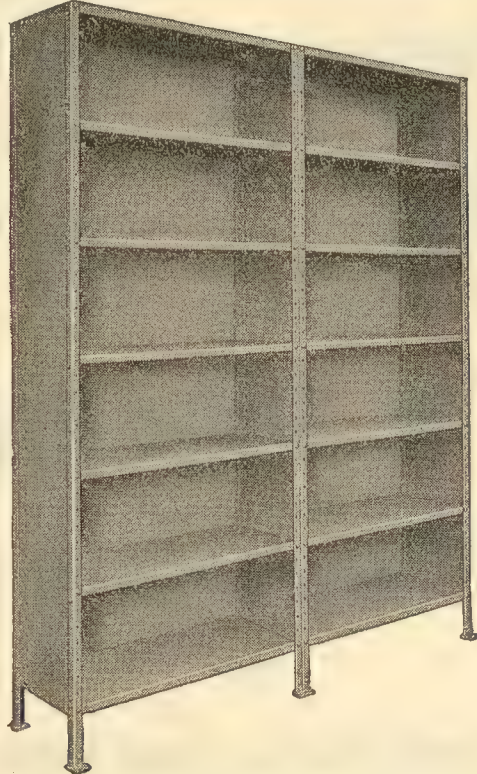
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 47

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PHILADELPHIA

November 20, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Stores, Northeast Corner Forty-fourth and Spruce streets, Philadelphia. Work contemplated. Architect, private plans. Owner, Nathan Litman, Forty-fifth and Pine streets, Philadelphia. Brick, 1 story.

Church Group, Fountain and Ridge avenue, Philadelphia. Preliminary plans drawn. Work contemplated in 3 or 4 years. Architect, Charles W. Maslin, 428 Roxborough avenue, Philadelphia. Owners, Epiphany Lutheran Church, care of Rev. H. Wacker, 4406 Dexter street, Philadelphia. Stone, 1 story.

Building (alts. and add.), 1726 South Broad street, Philadelphia. Plans in progress. Architects, Watt & Coscia, 1504 Locust street, Philadelphia. Owners, Sons of Italy, care of architect. Brick, 1 story and basement, 27x35 feet, hot water heat, electric light, plumbing, slag roof, concrete and maple floors.

Garage and Stores, \$500,000. Southeast Corner Thirteenth and Filbert streets, Philadelphia. Tentative plans in progress. Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia. Owners, Colonial Holding Co., care of Colonial Trust Co., 20 South Fifteenth street, Philadelphia. Brick and steel, 6 stories and basement, 106 feet front on Thirteenth street, steam heat, electric light, slag roof, cement floors.

Store and Residence (alts. and add.), Southeast Corner Ridge avenue and Green Lane, Philadelphia. Revised plans in progress. Architect, private plans. Owner, Adolph Lang, 6109 Ridge avenue, Philadelphia.

Moose Building, 1310-12-14-16 North Broad street, Philadelphia. Revised plans in progress. Architect will take new bids in about 2 weeks. Architect, Carl P. Berger, 500-01

Sydenham Building, 1512 Walnut street. Owners, Loyal Order of Moose, 1314 North Broad street, Philadelphia.

Gasoline Service Station, Front and Loudon streets, Philadelphia. Owners will build and will be ready for sub-bids in a few days. Architect, private plans. Owners, Atlantic Refining Co., C. H. Ehlers, Engineer, 260 South Broad street, Philadelphia. Brick, 1 story.

Psychopathic Hospital, \$330,000. Erection of Buildings for Treatment of Nervous Women, \$600,000. Removal of Grade Crossings, between the Delaware and Schuylkill Rivers, Philadelphia, \$2,000,000. Intercepting Sewer, North of Spring Garden street, both banks of the Schuylkill River to Gray's Ferry avenue, \$2,000,000. Work contemplated. Architect, not selected. Owners, Public Works Committee, City of Philadelphia, City Hall, Philadelphia.

Nurses' Home, Fifth and Reed streets, Philadelphia. Ready for bids in a few days. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owners, Mt. Sinai Hospital, on premises. Brick, steel, 3 stories and basement.

Contract No. 157, Broad Street Subway, Philadelphia. Owners taking bids due November 29th, noon. Owners, Department of City Transit, Thirteenth Floor, City Hall Annex, Philadelphia. Door openers for shop buildings, Fern Rock Terminal Yard. Plans and specifications may be obtained on the Fourteenth Floor, City Hall Annex, Philadelphia. Deposit, \$25, refunded. Certified check.

Apartment House, York road and Roslyn street, Philadelphia. Architect taking bids due November 29th. Architect, Louis J. Cohen, Real Estate Trust Building, Philadelphia.

Owner, A. Stark, care of architect. Brick, steel, limestone, 6 stories, 163x300 feet, 108 apartments, steel trussed gypsum roof, concrete floors, elevators, one service elevator, vapor heat, oil burners, electric light, tile and marble, incinerator, kitchen and laundry equipment.

Residences (6), \$32,000. East side Forty-fourth street, North of Spruce street, Philadelphia. Permit issued. Architect, private plans. Owner, Nathan Litman, Northeast Corner Forty-fifth and Pine streets, Philadelphia. Brick, 3 stories, 16x36 feet, 12x15 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Garage, \$3,000. East side Belfield avenue, South of Walnut Lane, Philadelphia. Permit issued. Architect, private plans. Owner, A. Funzi, 519 East High street, Philadelphia. Brick, 1 story, 40x18 feet, slag roof, cement floors, electric work.

Subway, under Schuylkill River at Market street, Philadelphia. Plans nearly completed. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, City Hall Annex, Philadelphia.

Storage Building (add.), \$5,000. 2940 Ellsworth street, Philadelphia. Permit issued. Architect, private plans. Owner, W. K. Mitchell, 2940 Ellsworth street, Philadelphia. Brick, 1 story add., 40x95 feet.

Garages, \$3,500 total. 1508-10-12-14-26-26 and 1511-13-31-33 East Duval street, Philadelphia. Permit issued. Architect, private plans. Owners, Chipin & Friedman, 5701 North Seventeenth street, Philadelphia. Brick, 1 story, slag roof, cement floors, electric light.

Garage, \$2,000. East side Frankford avenue,

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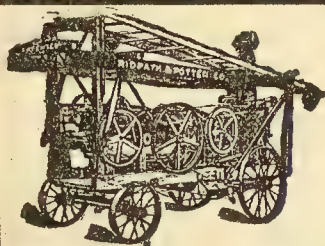
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North of Cumberland street, Philadelphia. Permit issued. Architect, private plans. Owner, Louis Montoriano, 3115 Frankford avenue, Philadelphia. Brick, 1 story, 24 feet x irregular, slag roof, cement floors.

Signal Tower (add.), \$2,265. West side Clarissa street, East of Bristol street, Philadelphia. Permit issued. Owners, Reading Co., Twelfth and Market streets, Philadelphia. Brick, second story add., 16x14 feet.

Bridges (2), over Schuylkill River, line of Filbert street, Philadelphia. Owners ready for bids in one month. Architect, private plans. Owners, Department of City Transit, City of Philadelphia, City Hall Annex, Philadelphia.

William H. Turner Memorial Parish House, rear present Church, Germantown ave. side, Phila. \$200,000. Plans in progress, ready for bids in spring. Architect, The Ballinger Co., 12th and Chestnut streets, Philadelphia. Owner, First Methodist Episcopal Church of Germantown, Dr. J. S. Ladd Thomas, rector.

Stone, limestone.

Platform Shelters (alts.), Columbia avenue passenger station, Eighth and Columbia avenue, Philadelphia. Owner taking bids due Nov. 25. Engineer, Clark Dillenback, Reading Terminal Building, Philadelphia. Owner, Reading R. R. Co., 12th and Market streets, Philadelphia. Bond, structural steel, iron work, carpentry work, repairs to roof, painting.

Residences (22), east side Upland Way, south Berks street, Philadelphia. \$111,000. Permit issued. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, Wm. Madway, 4218 Lancaster avenue, Philadelphia. Brick, 2 stories, 15 feet 6 inches by 33 feet, 12x17 feet, 3 inches, hot water heat.

Parochial School (alts.), Eighteenth and Wood streets, Philadelphia. Plans in progress. Architect, Hoffman-Henon, Finance Building, Philadelphia. Owner, Cathedral School, on premises.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Jewelry Trades Building, \$250,000. Southeast Corner Eighth and Sansom streets, Philadelphia. Contract awarded Frank G. Stewart, 1520 Locust street, Philadelphia. Electric: Keller-Pike Co., 230 North Camac street, Philadelphia. Heating and plumbing: W. M. Anderson, 600 Schuylkill avenue, Philadelphia. Architect, Ralph Bencker, 1601 Chestnut street, Philadelphia. Owner, Wilfred W. Fry, West Washington Square, Philadelphia. Brick, steel, reinforced concrete, limestone, 6 stories and basement, 90x91 feet (plumbing, heating, electric separate), metal lath, tile, marble, terrazzo, rolled steel sash, hollow metal sash, bond, metal bulks, iron stairs, ornamental iron work, area gratings, cinder concrete block, composition roof, concrete roof deck, cement and oak floors, hollow tile, elevators, caulking, waterproofing and dampproofing, cork insulation, mail chute, painting and glazing, hardware, metal toilet partitions, door and trim, bronze work, demolition, bluestone, excavation, integral waterproofing, granite work, alberene stone, vitrolite floors.

Stores, Southwest Corner Forty-third and Walnut streets, Philadelphia. Contract awarded Harry G. Walters, 412 North Fortieth street, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Charles Kahn, 709 Provident Trust Building, Philadelphia. Brick and steel, 2 stories and basement, slag roof, cement and yellow pine floors.

Service Station, Germantown avenue and Pleasant street, Philadelphia. Contract awarded I. S. Grindrod, 10 South Eighteenth street, Philadelphia. Architect, private plans. Owners, Vacuum Oil Co., Mitten Building, Philadelphia. Brick, 1 story, 20x20 feet, electric light, rolled steel sash, tile roof, slate roof, cement floors, plumbing.

Service Station, Ogontz avenue and Haines street, Philadelphia. Contract awarded I. S. Grindrod, 10 South Eighteenth street, Philadelphia. Architect, private plans. Owners, Vacuum Oil Co., Mitten Building, Philadelphia. Brick, 1 story, 67x25 feet, electric light, kalamein doors, slag roof, cement floors, yellow pine floors.

Garage, Southwest Corner Sixty-eighth and Yocum streets, Philadelphia. Contract awarded Lansdowne Construction Co., 7 South Lansdowne avenue, Lansdowne, Pa. Architect, Charles S. Dingleman, Fidelity-Philadelphia Building, Philadelphia. Owner, D. Frank Taylor, 114 Baltimore avenue, Lansdowne, Pa. Brick and steel, 1 story, 62x125 feet, slag roof, cement floor.

Addition, 164 West Cheltenham avenue, Philadelphia. Contract awarded Frank G. English, 1608 North Carlisle street. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, Cadillac Motor Car Co., on premises. Brick and concrete, metal lath, ornamental iron work, slag roof, cement floors.

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phia. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, R. T. French Co., 2228 North Tenth street, Philadelphia. Reinforcing floors.

Vehicular Tunnel, beneath Fifth street, from Race to Vine street, Philadelphia. Contract awarded Accchione Contracting Co., 1607 McKean street, Philadelphia, \$172,388.55. Engineer, Ralph Modjeski, 1420 Walnut street, Philadelphia. Owners, Delaware River Joint Commission, Joseph K. Costello, General Manager, Bridge Plaza, Camden, N. J.

Building, Broad and Poplar streets, Philadelphia. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia, who are taking sub-bids. Architect, private plans. Owners, Alliance Auto Service Co., North American Building, Philadelphia.

Storage Building, \$6,000. Northwest Corner Ontario and Aramingo streets, Philadelphia. Contract awarded Blow-Knox Co., Widener Building, Philadelphia. Architect, private plans. Owners, Quaker City Iron Works, East Tioga and Edgemont streets, Philadelphia. Iron on iron, 1 story, 39x120 feet.

Shop, \$2,900. Rear of Southwest Corner Fifty-fifth and Oxford streets, Philadelphia. Contract awarded George W. Christine, 5616 Lansdowne avenue, Philadelphia. Architect, private plans. Owner, James Heselwood, 5246 Lancaster avenue, Philadelphia. Brick, 1 story, 25x35 feet.

Residence (add.), \$2,500. Northwest Corner Mermaid Lane and Crefeldt street, Philadelphia. Contract awarded Charles Johnson, 450 Church Lane, Philadelphia. Owner, Willard Boothby, 1515 Locust street, Philadelphia. Stone, 3 stories add., 18x5 feet.

Demolition, (5) South side Filbert street, East of Thirteenth street, Philadelphia; (12) North side Commerce street, East of Thirteenth street, Philadelphia; (7) Thirteenth street, Filbert to Commerce street, Philadelphia. Contract awarded Jump House Wrecking Co., Forty-third and Woodland avenue. Owners, The Colonial Holding Co., care of George Weinrott, 260 South Fifteenth street, Philadelphia.

Residence and Store (add. and alts.), \$2,000. 109 East Allegheny avenue, Philadelphia. Contract awarded Basch & Co., Ruan and Tackawanna streets, Philadelphia. Owner, W. Dunball, on premises. Brick, 2 stories add., 3x7 feet, general alterations.

Garage (repairs), \$2,000. 4544 Richmond street, Philadelphia. Contract awarded Sutton & Stephenson, 1317 Washington avenue, Philadelphia. Architect, private plans. Owner, Joseph D. Salutsky, 631 Fairmount avenue, Philadelphia. General repairs.

Miscellaneous Work, Philadelphia, Pa. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, City Hall An-

nex, Philadelphia. Michner street, from Mt. Airy to Cresheim street, Philadelphia, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$11,209.10. Hancock, Bainbridge to South street, Philadelphia, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$3,987. Iseminger, from Lombard to Waverly; Latimer, Twenty-second to Twenty-third, etc., Atlas Paving Co., 317 South Sixth street, Philadelphia, \$5,672.50. Lehigh avenue, West of Frankford avenue, Philadelphia, Atlas Paving Co., 317 South Sixth street, Philadelphia, \$1,382. Hancock, from Huntingdon to Lehigh avenue, Philadelphia, Union Paving Co., 123 South Twenty-first street, Philadelphia, \$9,481.50.

Hosiery Mill, Keystone and Benner streets, Philadelphia. \$17,000. Contract awarded W. F. Lotz, Frankford avenue and Oxford pike, Philadelphia. H. R. Cochran, engineer, Oxford Bank Building, Frankford and Oxford avenue, Philadelphia. Owner, Mayfair Hosiery Co., care general contractor. Brick, steel, 1 story, 70x92 feet, rolled steel sash, slag roof, yellow pine and cement floors.

Residence, Watson street, west of Napfle street, Philadelphia. \$3,000. Contract awarded Thos. E. Lampman, 7145 Tabor st., Philadelphia. Architect, private plans. Owner, Ephraim Sharp, 217 East Loudon street, Philadelphia. Frame, 2 stories, 22x36 feet.

Pennsylvania Construction News

Factory, Montgomery, Pa. Low Bidders. Architect, W. D. Shollenberger, 11-17 West 4th street, Williamsport, Pa. Owner, Montgomery Industrial Development Co., Mr. L. A. Henderson, Montgomery, Pa. Brick, reinforced concrete, steel, 1 story, 132x158 feet, metal lath, tile, builtup roof, concrete and maple floors, sissalkraft building paper, kalamein doors, iron stairs, steel roof trusses, steel sidewalks, sash, waterproofing, concrete block. Yenter Bros., Tyrone, Pa., \$37,980; Albert Boyer, Northumberland, Pa., \$40,200. Heating, Harry N. Marshall, 1013 Ridge avenue, Philadelphia, \$5,134; plumbing, Ertle Plumbing and Heating Co., Williamsport, Pa., \$1,145.

Fire House and Municipal Building, East Lansdowne, Pa. Project approved, working plans in progress. Architect, R. W. Champion, Beverly Hills, Upper Darby, Pa. Owner, Borough of East Lansdowne, F. C. Griggs, president, Upper Darby, Pa.

Gymnasium Building, South Langhorne, Pa. Architect and builder selected. Plans in progress. Owner, St. Mary's Manor, Rev. Peter Quinn, South Langhorne, Pa.

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Building, East side Bermont road, and Ferne road, Aronimink, Pa. Work contemplated. Owner, Markis Benn, 419 South Forty-ninth street, Philadelphia.

Residences (3), Melrose Park, Pa. Plans in progress. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owners, Steel Built Homes Corporation, L. M. Heggedorn, 6720 York road, Philadelphia.

Office and Apartment Building (add.), Pottstown, Pa. Plans in progress. Architect, Benjamin R. Stevens, 1827 Arch street, Philadelphia. Owners, Jacob S. Bahr & Son, Arcade Building, Pottstown, Pa. Brick, 3 stories.

Gymnasium, opposite Demonstration School, West Chester, Pa. Plans completed. Architect ready for bids. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, West Chester State Teachers' College, West Chester, Pa. Stone, steel, brick and concrete.

Residence and Garage, Drexel Park, Pa. Architect ready for bids in two weeks. Architect, Harold Edwards Williams, Drexel Park, Pa. Owner, Edward Schwartz, care of architect. Stone, 2½ stories and basement, ir-

regular, hot water heat, electric light, metal lath, tile, slate roof, oak and yellow pine floors, plumbing.

Residence and Garage, \$30,000. Haverford, Pa. Plans in progress. Plans drawn by E. Kenny Crothers, State road and Providence road, Media, Pa. Owner, John S. Makiver, Media, Pa. Stone, 2½ stories and basement, vapor heat, electric light, metal lath, tile, slate roof, oak and yellow pine floors, plumbing.

School, \$75,000. Between Morrisville and Yardley, Pa. Bond issue approved. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Lower Makefield Township, Edwin Greenlee, President, Yardley, Pa.; Clarence H. Harvey, Secretary, Woodside, Pa.

School, Newport road, Grupp Property, Bristol Township, Pa. Plans ready for bidders November 21st. Bids due December 12th. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Bristol Township, Ira C. Brown, President, Bristol, Pa. Cinder block and stucco, 1 story, 35x40 feet. (2 checks.) Deposit certified check of \$50 and certified check of \$5. \$50 refunded. Mechanical work, certified check \$25, certified check \$5; \$25 refunded.

Stores (2) (alts. and add.), 27-29 West State street, Media, Pa. Ready for bids in a few days. Plans drawn by E. Kenny Crothers, State and Providence roads, Media, Pa. Owner, H. J. Makiver, Media, Pa. Brick and steel, 1 story, 20x25 feet, slag roof, yellow pine floors.

Parochial School, Jermyn, Pa. Owners taking bids due November 26th. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Roman Catholic Church of Sacred Heart, Rev. M. Jordan, Jermyn, Pa. Brick, hollow tile, 2 stories and basement, 60x85 feet, steam heating, electric lighting, metal lath, slate and slag roof, cement and pine floors, plumbing, steel and wood joist.

Hotel and Apartment Building, Allentown, Pa. Owners taking bids due November 26th, noon. Architect, W. L. Stoddart, 50 East Forty-first street, New York City. Owners, National Realty Assoc., 1014 Hamilton street, Allentown, Pa. Brick, reinforced concrete, steel, 7 stories and basement, 205x74 feet (plumbing, heating, electric reserved), metal lath, tile and marble work, terrazzo, rolled steel skylights, bond, area gratings, slag and tile roof, cement and oak floors, hollow tile, roof ventilators, caulking, waterproofing, Parlock dampproofing, excavation, gypsum block partitions, cast stone copings, modeling, bronze show window frames, hollow steel doors and trim, bronze covered doors

and sash, imitation travertine, ornamental plaster.

Hotel, \$70,000. Tyler Hill, Wayne County, Pa. Architect taking sub-bids. Architect Robert H. Faba, 188 Market street, Newark, N. J. Owner, Maurice Campbell, care of architect. Frame, 2½ stories and basement, 80x175 feet, concrete foundations, slag roof, plumbing, steam heat, electric light, stucco, hardwood and tile floors.

Residences and Garages (2), \$14,000 each. Penfield avenue, Penfield, Pa. Owners taking sub-bids. Work to start in 2 weeks. Architect, private plans. Owners, Manorcraff, Inc., 37 East Lancaster avenue, Ardmore, Pa. Stone, brick, frame, 2½ stories, 40x32 feet, hot water heat, electric light, tile and marble work, wood shingle roof, hardwood floors.

Residence and Garage, \$40,000. Latches Lane, East of Wynnewood road, Merion, Pa. Owner will sub-let. Work to start in March, 1930. Architect, W. A. Wolcott, 324 North Charles street, Baltimore, Md. Owner, L. N. Gross, Montevista Apartments, Sixty-third and Jefferson streets, Philadelphia. Stone, 2½ stories and basement, 45x45 feet, vapor heat, electric light, metal lath, tile and marble work, slate roof, oak and yellow pine floors, plumbing, cement floors.

Sales and Service Building, 230 North Eighth street, Allentown, Pa. Engineer taking sub-bids. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, Frank Wolf, care of Engineer. Fireproof, 2 stories, 36x120 feet, slag roof, concrete floors, electric light.

Game Room, \$40,000. Broadwater Farms, near Phoenixville, Pa. Architects taking bids due November 26th. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owner, Frank B. Foster, on premises. Stone and stucco, steel, 2 stories and basement, 67x34 feet, vapor heat, electric light, metal lath, tile, marble, ornamental iron work, area grating, slate roof, cement and oak floors, plumbing, caulking, dampproofing, flagstone, reinforced concrete work, brick work, carpentry and mill work, plastering, painting and glazing, hardware.

Telephone Building, Lancaster, Pa. Architect taking bids due November 22nd. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of America, Nineteenth and Arch streets, Philadelphia. Brick, steel, limestone, 3 stories and basement, 97x120 feet, steam heat, electric light, metal lath, tile, rolled steel sash, bond, ornamental iron work, slag roof, cement floors, plumbing.

Paving, Norristown, Pa. Owners taking bids due November 29th, noon. Engineer, Bor-

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ough Engineer of Norristown, Pa. Owners, Borough of Norristown, F. Lester Smith, Clerk of Council, Norristown, Pa. Approximately 2,700 square yards, near Swede street, Norristown, Pa. 5½-inch by 5½-inch one course reinforced concrete pavement with excavation, drainage and approach to intercepting streets. Certified check, 5 per cent. Bond, 80%. Plans may be seen at office of Engineer.

Road Work, Pennsylvania. Low bidders. Owners, Commonwealth of Pennsylvania, Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Greene County, A-242, Washington Township. Bituminous penetration surface course on broken stone base course. National Bituminous Construction Co., West Alexander, Pa., \$40,422.45.

Crawford County, R-271, Centerville Borough. Plate girder bridge, 2-span. Progressive Engineering Corporation, Buffalo, N. Y., \$59,544.65.

Somerset County, R-119, Sec. R-2, Jenner Township. One course reinforced concrete, grading and drainage. Windber Construction Co., Windber, Pa., \$92,628.52.

Carbon County, A-6406, Lower Towamensing Township. One course reinforced concrete, grading and drainage. Rudolph & Delano, Tamaqua, Pa., \$320,757.45.

Erie County, R-258, Washington Township. Plate girder bridge, 1 span. Roberts Supply Co., Lima, Ohio, \$26,049.25.

Union County, R-176-24, Buffalo, Union, East Buffalo, Kelly Townships, Lewisburg Borough. One course reinforced concrete. A. A. White, Inc., Lebanon, Pa., \$340,498.67.

Clearfield County and Centre County, R-219, Cooper and Snowshoe Townships. 2-span pony truss bridge, grading. David Bailey, Morrisdale, Pa., \$70,227.57.

Lehigh County, A-6391, Whitehall and North Whitehall Townships. One course reinforced concrete. George H. Hardner, Allentown, Pa. (Lentz Building), \$101,184.28.

Lawrence County, R-265, Sec. 5, Lower Beaver Township, Enon Valley Borough. One plate girder structural steel and reinforced concrete bridge. Gerrity & Parish Co., Youngstown, Ohio, \$161,377.65.

Pennsylvania

Contracts Awarded

Apartment House (32 apartments), \$340,000. Chester road, Swarthmore, Pa. Contract awarded Manorcrafft, Inc., 37 East Lancaster avenue, Ardmore, Pa. Owner and builder taking

sub-bids due November 22nd. Architect, private plans. Owner, William R. Parker, Sr., Wynnewood, Pa. Brick, steel, reinforced concrete, 6 stories, 156x105 feet, local stone, cut stone, vapor heat, oil burners, tile and marble work, rolled steel sash, steel fire doors, reinforced concrete and built-up roof, concrete and oak floors, elevators, incinerators, metal kitchen equipment, refrigeration.

Reservoir, Dam, etc., \$2,500,000. Crum Creek, site of Old Palmer Mills, Marple and Newtown roads, Upper Providence Township. Architect, private plans. Owners, Philadelphia & Suburban Water Co., Bryn Mawr, Pa. Clearing site, dam 70 feet high, aerating fountain, dam to be earth embankment, concrete core wall, underlying rock masonry, spillway, capacity 4,000,000,000 gallons, 400 acres. Contract awarded American Pipe & Construction Co., Packard Building, Philadelphia, and on site.

Residence and Garage, Sayreville, Pa. Contract awarded Townsend, Schroeder & Wood, 1700 Sansom street, Philadelphia. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Richard D. Morgan, care of architect (Bell Telephone Company, Seventeenth and Arch streets, Philadelphia.) Stone and steel, 2½ stories and basement, 123x34 feet, wing 72x31 feet, garage, 130x22 feet, shingle roof, oak and yellow pine floors, cement, metal lath, tile, bond, ornamental iron work.

Residence (alts.), Noble, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architect, Paul M. Hesser, 225 South Sixth street, Philadelphia. Owner, Frank E. Chesterman, Jr., Abington, Pa. Carpentry and mill work, painting and glazing, general interior alterations.

Packing Plant (add.), \$15,000. Phoenixville, Pa. Contract awarded John L. Steele, Jr., Norristown, Pa. Engineers, William Steele & Son, Southeast Corner Fifteenth and Cherry streets, Philadelphia. Owners, Weiland Packing Co., Phoenixville, Pa. Brick, steel, 1 story, 50x30 feet, slag roof, cement floors.

Theatre and Stores (6), Apartments (23), Pottstown, Pa. Contract will be awarded to Earl Hampton, Pottstown, Pa., if project matures. Architect, Henry Reinhold, 1632 Walnut street, Philadelphia. Owners, St. Clair Corporation, 402 DeKalb street, Norristown, Pa. Brick, reinforced concrete, limestone, steel, 3 stories and basement, 125x180 feet, slag roof, cement floors, oak and pine floors, metal lath, tile work, bond, ornamental iron work.

Garage, Route 225, State Highway Parallel B street, Swedeland, Pa. Contract awarded Frank R. Heavner, Norristown, Pa. Engineer,

Louis Ehlinger, Ivy Rock, Pa. Owners, Allan Wood Iron & Steel Co., Ivy Rock, Pa. Brick, steel, 10-car capacity, slag roof, cement floors, electric light, 60x130 feet, 1 story, steel sash.

Gas Station, \$6,000. Gettysburg, Pa. Contract awarded Edgar M. Wambold, Northeast

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Corner Thirteenth and Arch streets, Philadelphia. Architect, private plans. Owners, Vedder Oil Company, care of Crew Levick Co., Elverson Building, Philadelphia. Frame, 1 story, 16x22 feet, electric light, asbestos shingle roof, cement floors, plumbing, macadam driveways.

Road Work, Pennsylvania. Contracts awarded. Owners, State of Pennsylvania, Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Westmoreland County, R-302, Sec. 5, A-6857, Ligonier and Fairfield Townships. One course reinforced concrete, grading and drainage, (2) bridges. Adam Erdemiller, New Alexandria, Pa., \$172,109.11.

Pike County, R-334, R-220, Lackawaxen Township. Bituminous surface treated macadam surface course. Lane Construction Co., Meriden, Conn., \$158,774.41.

Huntingdon County, R-261, Sec. 2, Oneida Township. Grading and drainage, (7) bridges. Penbrook Drayage & Supply Co., Harrisburg, Pa., \$86,559.66.

Snyder County, R-195, A-5792, Perry, Franklin and Washington Townships. Grading and drainage, (2) bridges. O. P. Bell Construction Co., Inc., Sunbury, Pa., \$144,420.21.

Huntingdon County, R-192, Sec. 2, Cass and Union Townships, Cassville Borough. Grading and drainage, (1) bridge. Penbrook Drayage & Supply Co., Harrisburg, Pa., \$92,324.32.

Mercer and Trumbull Counties, A-6220, South Pymatuning Township, Pa., Hartford Township and Orangeville Borough, Ohio. One course reinforced concrete, (2) bridges. Young & Keeseaker, Youngstown, Ohio, \$33,839.83.

Potter County, R-104, Sec. 1, Eulalia Township and Homer Township, Coudersport Borough. Grading and drainage, (3) bridges. A. W. Hinaman Construction Co., Williamsport, Pa., \$107,607.93.

Erie County, R-258, Washington Township. Plate girder bridge, 1 span. Roberts Supply Co., Lima, Ohio, \$26,049.25.

Lehigh County, A-6391, Whitehall and North Whitehall Townships. One course rein-

forced concrete. George H. Hardner, Lentz Building, Allentown, Pa., \$101,184.28.

Water Main Extension, Laurelton, Pa. Contract awarded B. O. Daubert, Hartleton, Pa. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Laurelton State Village, Laurelton, Pa.

New Jersey Construction News

High School, Washington street, Riverside, N. J. \$125,000. Plans about completed, ready for bids in a week. Architect, Alexander Merchant, New Brunswick, N. J. Owner, Riverside Township, Board of Education, John Taylor Neal, president, Riverside, N. J. Brick, steel, 2 stories and basement, 9 rooms and gymnasium.

Grade School (8 rooms), Westmont, N. J. Low bidders. Architect, Chas. R. Peddle, 136 South 4th street, Philadelphia. Owner, Haddon Township School Board, J. R. Y. Blakely, president, Westmont, N. J. W. J. Hagerty, 34 South 17th street, Philadelphia, \$51,975; Geo. Bachman, 19 North 30th street, Camden, N. J., \$57,416. Heating (lowest base bid): South Jersey Engineering and Sales Co., 534 Cooper street, Camden, N. J.

Passenger Station, \$1,750,000. Trenton, N. J. Plans in progress. Architect, private plans. Owners, Pennsylvania Railroad Co., Fifteenth and Market streets, Philadelphia.

Post Office and Federal Building, Fourth and Market streets, Camden, N. J. Plans in progress. Architect, James A. Wetmore, Treasury Building, Washington, D. C. Owners, United States Government, Post Office Department, Washington, D. C.

Apartment House, Collings and Champion avenues, West Collingswood, N. J. Plans in progress. Architect, not selected. Owners, Specialty Homes, Inc., care of Mark Marritz, Wilson Building, Camden, N. J. Brick, 5 stories.

Business Building, Broad and East State streets, Trenton, N. J. Plans in progress. Ma-

turity indefinite. Architects, William I. Ho-hauser, Inc., 17 West Forty-fourth street, New York City. Owner, care of architect. Brick, 4 stories, 85x89 feet. Too early for details.

Camden Boulevard, Seventh street, from Haddon avenue and Mickle street to Atlantic avenue, Camden, N. J. Tentative plans drawn. Working plans in progress. Owners, Pennsylvania Railroad and City of Camden, care of J. O. Hickenberg, Superintendent of Philadelphia Division. Removal of tracks and building of 90-foot boulevard. Approximately \$1,000,000.

Office Building (wing addition), Burlington, N. J. Architects ready for bids in 2 weeks. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, United States Pipe & Foundry Co., Burlington, N. J. Brick, 1 and 3 stories, 60x100 feet, slag roof, cement floors.

Hotel, Robbinsville, N. J. Architect will be ready for bids in about one week. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, Joseph Klempner, Mercerville, N. J. Brick, steel, 2 stories, 100x100 feet, slate roof, hardwood floors, damp-proofing, incinerator, kitchen equipment, casement windows, tile, marble, electric light, oil burner, vapor heat.

Cottages, Mt. Holly, N. J. Work contemplated. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Children's Home, Mt. Holly, N. J.

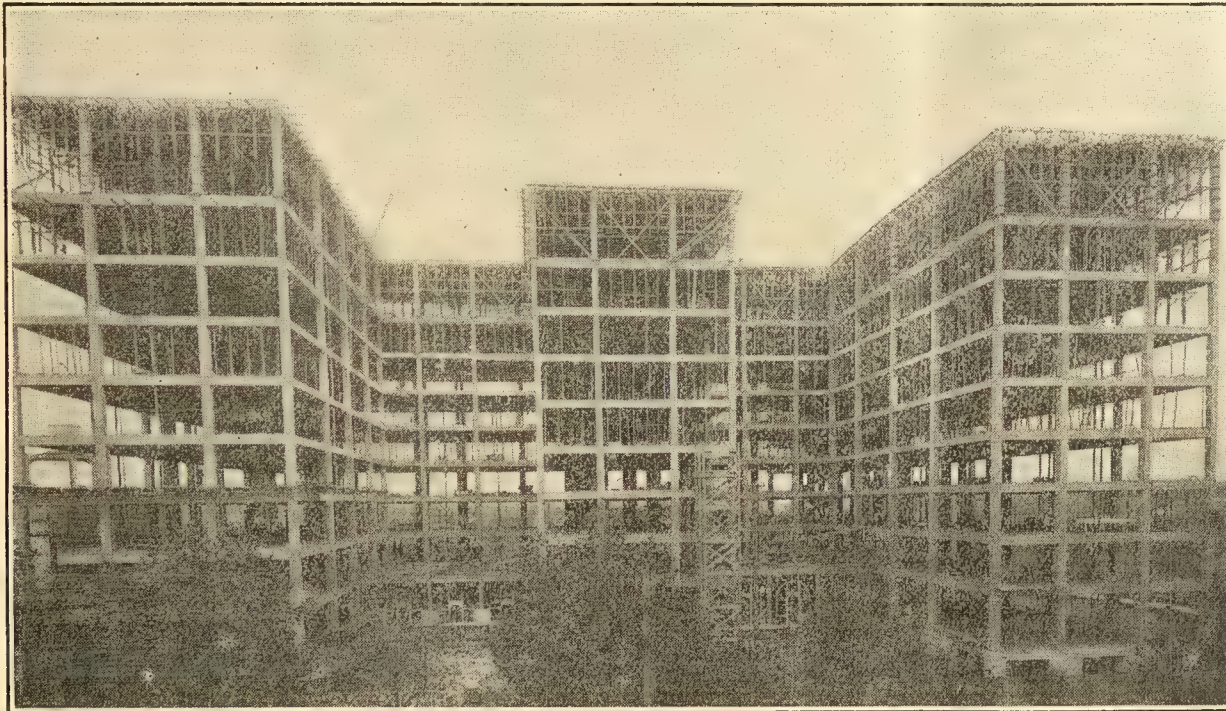
Club House, Market street, above Eighth street, Camden, N. J. Ready for bids January 1st. Architects, Edwards & Green, Camden, N. J. Owners, Camden Lodge, No. 111, L. O. O. M., T. A. Colsey, Dictator, 635 Market street, Camden, N. J. Brick, stone, steel, 3 stories. Will contain auditorium, lodge rooms, etc. Size of lot, 100x174 feet, 190x100 feet.

Church, Trenton, N. J. Architect taking bids. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owners, Hungarian Reformed Church, Rev. V. Racz, 716 Anderson street, Trenton, N. J. Brick, 1 story and basement, 40x50 feet, slate roof, maple floors, electric light.

School, Albion, N. J. Owners taking bids due November 29th. Architect, Thomas Stephen, 312 Market street, Camden, N. J. Owners, Winslow Township School Board, Albert C. Crowley, Secretary, R. F. D., Hammonton, N. J. Brick, 1 story, 3 rooms, slate roof, pine floors, roof ventilators (heating, plumbing and electric work separate).

Dormitory (alts. and add.), New Jersey State Hospital for Women, Greystone Park, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2 stories and basement, 61x50 feet, slag roof, metal window guards, caulking, hollow metal doors, tile, marble, metal lath, excavation, reinforced concrete, waterproofing and damp-proofing, cinder block, iron work, alberene stone, door and window screens, painting, glazing. General: C. J. Smith Construction Co., 202 Academy street, Trenton, N. J., \$68,169. Plumbing: Burns, Lane & Richardson, New Brunswick, N. J., \$4,187. Heating: Buist & Sons, New Brunswick, N. J., \$2,650. Electric: Standard Elec. Co., Bayonne, N. J., \$1,597.

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.



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New Jersey Contracts Awarded

Dormitories, Hillsdale, N. J. Contracts awarded Geo. H. Evans, 1416 Vine st., Philadelphia, \$793,200. Plumbing: G. T. Tobin, Plainfield, N. J., \$82,939. Heating: G. T. Tobin, Plainfield, N. J., \$54,954. Electric: J. T. Flanagan, Broad Street Bank Building, Trenton, N. J., \$18,000. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2 stories, 173x47 feet, wing 27x24 feet, 2 stories, 27x20 feet, 144x33 feet, cement floors, hollow tile, linoleum, window screens, slate roof.

Kitchen and Dining Hall, New Jersey State Hospital for Insane, Trenton, N. J. Owners taking revised bids due Nov. 27. Architects, Division of Architecture and Construction, Charles J. Leatham, Directors, State House, Trenton, N. J. Owners, Dept. of Institutions and Agencies, William J. Ellis, Comm., State House, Trenton, N. J., and New Jersey State Hospital for Insane, Mr. Atchley, Superintendent, Trenton, N. J. Brick, steel, reinforced concrete, 1 and 2 stories, 100x150 feet, slate roof, quarry tile floors, roof ventilators, waterproofing, area gratings, iron stairs, metal partitions, kalamein doors, steel sash, rotary ventilators, tile, metal lath.

Nurses' Home (add.), Lakeland, N. J. Contract awarded Watson & Schleinkofer, Atco, N. J., \$76,000. Plumbing: Harry Knecht, Collingswood, N. J., \$9,868. Heating: Charles H. Leupold, Camden, N. J., \$4,484. Electric, Franks & Sweeney, 1073 Haddon avenue, Camden, N. J., \$2,390. Architect, Arnold H. Moses, 330 Arch street, Camden, N. J. Owners, Camden County Board of Freeholders, L. H. Ewing, Court House, Camden, N. J. Brick, steel, 2 stories, 35x124 feet, 76x35 feet, slate roof, hardwood floors, safety treads, metal weather strip, waterproofing, flagstone, blue-stone, heating extension, fire doors, bond, iron stairs, ornamental iron, brass pipe, area gratings.

Wessells Memorial Buildings (3), \$300,000. New Brunswick, N. J. Contract awarded Rogers & Gous Construction Co., 71 John street, New Brunswick, N. J. Architects, York & Sawyer, 100 East Forty-second street, New York City. Owners, Rutgers University, New Brunswick, N. J. Brick and steel, 3 stories and basement, irregular, steam heating, electric light, metal lath, tile, bond, ornamental iron work, slate roof, maple, yellow pine and cement floors.

Apartment (alts.), Perry street, Trenton, N. J. Contract awarded Nathan Milgaten, 53 Spring street, Trenton, N. J. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, Mrs. M. J. Bruther, 11 Perry street, Trenton, N. J. General interior alterations, partitions, tile work, electric work (heating and plumbing reserved).

Dormitory Building, \$56,923. Colony for Feeble Minded Males, Woodbine, N. J. Contracts awarded. Architects, Division of Architecture and Construction, Chas. J. Leatham, Director, State House, Trenton, N. J. Owners, Dept. of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2½ stories and basement. General: C. J. Scully & Son, Wildwood, N. J. Plumbing: W. R. Bagg, Vineland, N. J. Heating: Fred Wackenhut, 2416 Frankford avenue, Philadelphia, \$4,135. Electric: W. E. Snell, Vineland, N. J., \$1,484.

Store, Residence and Garage, \$5,500. 231 Pine street, Camden, N. J. Contract awarded Salvatore Sylvester, 431 Stevens street, Camden, N. J. Architects, Gaudelli Brothers, 128

Cornell road, Audubon, N. J. Owner, Stefano Di Mauro, 1118 South Fourth street, Camden, N. J. Brick, 2 stories, 16 feet 8 inches x 52 feet, slag roof, hot water heat.

Stores and Apartments (alts. and add.), \$2,500. 740 State street, Camden, N. J. Contract awarded Hensgen Brothers, 1140 Mechanic street, Camden, N. J. Owner, Frank Hartman, 740 State street, Camden, N. J. Brick, 1 story add., 5x16 feet, asphalt roof, general alterations.

Miscellaneous Construction News

Stores and Office (alts.), 1914-16 Broadway, N. Y. Architects taking bids due November 23rd. Architects, Stuckert & Co., 362 West Fiftieth street, New York City. Owner, Elizabeth B. Hellman, 71 West Forty-fifth street, New York City. Lessees, Bickford's, Inc., 362 West Fiftieth street, New York. New granite, 3 stories, 58x50 feet, bronze bulk window construction, new partitions, plumbing, carpentry work.

College Building, \$300,000. Washington, D. C. Preliminary sketches drawn. Architect, Paul A. Monaghan, 1520 Locust street, Philadelphia. Owners, Augustinian College, care of Rev. Daniel A. Herron, O. S. A., Provincial Father, Villa Nova, Pa.

High School (add.), Dover, Kent County, Del. Owners taking bids due November 22nd, at 3 P. M. Architects, Frank R. Watson and Edkins & Thompson, 1520 Locust street, Philadelphia (note architects' names). Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Board of Education Building, Dover, Del. Brick, east stone, steel, 2 stories and basement, 64x35 feet, es-

timate No. 2; estimate No. 1, 2 stories and basement, 32x35 feet; Barrett specification roof, maple and cement floors, steam heat, electric light, metal lath, steel sash, bond, ornamental iron, reinforced concrete, excavation, metal partitions, carpentry, mill work, hardware, painting, glazing, plumbing. Certified check, 5 per cent. of bid or bid bond. \$25 deposit (refunded). Bid No. 1, 3-room addition. Bid No. 2, 6-room addition. (Note correction.)

Proposal

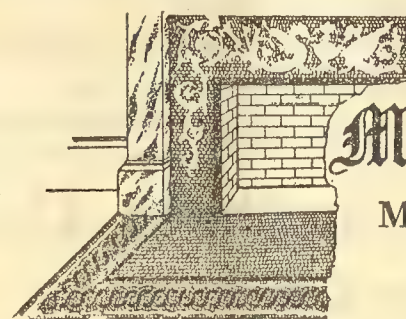
TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C. Nov. 18, 1929.—Sealed Bids will be opened in this office at 3 p. m., December 19, 1929, for construction of the U. S. post office at Tyrone, Pa. Drawings and specifications, not exceeding six sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit is made of \$15.00 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

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In a consensus opinion representing leaders from all component parts of the construction industry throughout the nation including banking, architects and engineers, real estate, manufacturers, material supplies, transportation agencies, contractors and labor, the American Construction Council recently in a statement issued through its Executive, Dwight L. Hoopingarner, declared the present situation in the speculative securities market shows the need for the American investing public, and especially persons of moderate means, to return to the fundamentals of sound investment practice and urged the wider employment of investment funds in the legitimate phases of building operations, also giving suggested safeguards for making such investment. The statement in full says:

"Recent developments in the speculative securities market demonstrate once again the need for an active and continuous recognition on the part of the American investing public, and especially persons of moderate means, of the principles of sound investment practice based upon real utility and stable values as found for example in the legitimate phases of building operations. The investing public can do well to employ regularly a much greater portion of its funds, largely diverted the past year into speculative channels, in the ownership of its own homes or in conservative mortgages or other prime securities in properly conceived and properly conducted buildings or other construction projects that serve necessary purposes, such as home building or modern industrial structures or needed public improvements. This will

not only serve the purpose of sound investment but greatly help in preventing possible unemployment in the building trades and also in the many lines of industry and commerce that in turn feed the construction industry itself or follow in its path. New construction of the right kind, as well as rebuilding and remodeling of basically well-built business structures serving a useful purpose and the modernizing of homes and home equipment, can be very advantageously conducted with these purposes in view at this time. The present seasonal decline in building activities also offers a good building market for these purposes.

"This does not mean that the public should blindly encourage all sorts and kinds of building, for as the American Construction Council pointed out in a note of warning sounded during the onrush of the construction boom over six years ago, unrestricted speculative building is itself a real danger and certain basic requirements are as necessary for safe building investment and home ownership as in other major fields of investment.

"The lone investor, of course, cannot always make a direct personal investigation of all factors entering into a particular building investment, but he can take precautionary steps to learn from the loaning institutions and through other appropriate channels such as his own bank that such factors are being cared for and should insist upon being fully acquainted with those factors before putting his money into building or real estate securities. He should also acquaint himself thoroughly with the general details of

mortgage bond procedure and other forms of real estate securities. Every building must be considered as a separate problem, but it is generally acknowledged that there is no class of commercial investment safer than the right kind of mortgage or other real estate securities.

"Among the more important requirements to be borne in mind by the Building investor are the following: First, remember that for sound investment both safety of the principal and return on the money invested are essential, the problem being to get the proper balance between these two factors in each particular case for as the former increases the latter tends to decrease. Second, deal only with reliable investment houses or other reputable independent sources. Third, consider the purpose of the building bearing in mind the future as well as the present demand for such a building with respect to its possible earning capacity. Fourth, consider the location of the building as related to its use bearing in mind the possible future shifting of business and residential centers. Fifth, make sure that the general type and design of the building harmonizes with its purpose and its location. Sixth, make certain that the quality of construction is good both as to materials and workmanship throughout with regard to the purpose intended to be served by it, and that the improvement is an economical one for this purpose, insisting that reliable architects and contractors have charge of the construction and that they use only quality materials. Seventh, carefully consider the earning capacity of the building for the future as well as for the present, including not only the cost of construction itself but also the cost of the land and other financing, taxation, assessments, and the like, and the future market conditions for the type of occupancy that the building is intended to serve. Eighth, a point frequently overlooked is that the investor should insist upon a high character of management for the building after its completion, making certain that the terms of the loan on the building require that the owner provide and maintain first-class supervision of the building in every way over the entire period of the investment.

"When such basic requirements are once met, no field of industrial activity can do more to stimulate and permanently maintain the prosperity of the nation than does the construction industry in its many phases, for since construction both creates and maintains wealth it is a national asset of the first magnitude in character as well as volume of wealth produced by it. Its influence reaches from the raw materials at the mine or quarry or clay bank or forest through the factories and agencies of transportation to the final installation of the finished materials in the school, courthouse, store, factory, high-

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way or home. It also stimulates the many allied lines of commerce and industry that follow along with construction, as for example house furnishings, school and office equipment and the like. Better construction conditions, therefore, mean better business for everybody, and the public can with advantage to all concerned put its money into the right kind of building investments."

SET-BACKS? YES. What have set-backs to do with the matter of structural designing? Aplenty. But it is merely a matter of engineering design according to the ordinary laws of the art—that is all.

GRANTED THAT the engineering problems involved in set-back construction are solved by applying the ordinary laws of the engineering art, what of it? Instead of the old style building in which the running down of the column loads from top to bottom was a simple arithmetical calculation and the floor framing was typical, it is far different. Offsetting the columns at the set-backs not only requires an irregular distribution of loads but it necessitates the designing of special set-back girders and special provisions for properly transmitting the wind stresses.

ALL OF this unusual construction requires special details and sections, a greater number of and more intricate calculations, time, study, knowledge and experience—all of which costs money.

THAT ISN'T ALL. Forget about the extra labor and cost of designing—there is the other item of dimensioning the plans. Any tyro can readily see the increased complications of dimensioning the set-back job.

AND NOW the aesthetic architectural design. What is that? Let me tell you. The architect, having eliminated the flat ceiling, needs to have the exposed ceiling beams spaced accurately between the walls of the room, or, the edge of the beam plastering must coincide with that of the partition below. Clearance must be provided for pipes, ducts and shafts. Construction must be concealed. In fact, the engineer must juggle the steel so as to accommodate it to the most exacting demand of the architect.

ALL OF this may produce eccentric column loads—it usually does. These must be calculated and provided for in the column section. It also produces unusual bending moments in the girders and beams which require special consideration and design—and all the time watch out that every pound of steel and every rivet does all the work that the law allows.

NOT ONLY is the designing more complicated but the dimensioning becomes something fierce. The cost of dimensioning very often exceeds the cost of designing—and all for the price of one. It takes time to line up the steel

with the work to be done by others. Not only must the other parts of the structure be clearly defined so as to properly locate the steel but the closest co-operation must be maintained with the architect and many of the subcontractors so that perfect co-ordination is secured.

NO ONE objects to the hard concentrated effort required to produce correct engineering designs. That is part of the game, but the work is justly entitled to a profitable compensation. It is doubtful if the engineers, co-laborers, architects, mechanical engineers, contractors and subcontractors fully realize the amount of labor and cost required to attain this perfect co-ordination of the multitude of elements that comprise the modern building.

SURELY A better understanding of the structural engineer will develop a more rational relationship between him and all the others. This may sound too altruistic for this day and age. But is it? Who is damaged if the other fellow enjoys a profitable business? What can you profit by gypping the other fellow? Can any social state prosper when undue advantage is taken of one or several professions, occupations or trades?

IT IS to explain some of the new conditions that are caused by the new type of buildings in designing and dimensioning that mention is made of them at this time.

CAN YOU prosper having incorrect

relations with your fellows and will your building stand up with an inadequate structural frame? Then why not admit that:

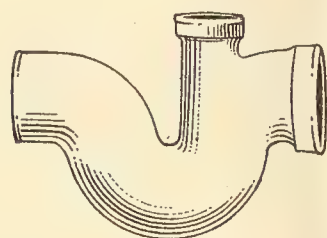
Correct relations are the bases of social and economic welfare.

On the structural frame hang all of the building and its contents.

Although American domestic ambition has led to the relinquishment of modest led to the relinquishment of modest homes, and the old fashioned idea of systematically paying off the mortgage has been superseded by a scramble for houses that feature three baths and four mortgages, foreclosures are surprisingly few and will decrease in the future, said William H. Kingsley, vice-president of the Penn Mutual Life Insurance Company of Philadelphia, before the Sixteenth Annual Convention of the Mortgage Bankers' Association of America.

Speaking on mortgage investment problems of life insurance companies, Mr. Kingsley said that there is a tendency on the part of the public to undertake home ownership with too little equity so that the home is endangered when family illness or unexpected expense throws them out of gear financially, and he warned his audience of mortgage bankers from every part of the country against handling junior mortgages on such properties.

He also scored elected tax officials who extend leniency to residential property



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owners in the matter of payment of taxes because they know the mortgagee will ultimately settle these bills, and said that such extensions encourage home owners to jeopardize their holdings.

The speaker who represents one of the largest insurance companies in the world with assets of millions of dollars touched on the stock market situation and stated that the break in the market has not destroyed money but has dissipated the froth of artificial values.

Describing a survey of foreclosures, as compared to mortgages, held by a group of the largest life insurance companies in the United States whose assets are close to \$13,000,000,000, and who hold more than \$5,500,000,000 (five and a half billion) of mortgages in all sections of the country, Mr. Kingsley said that the percentage of foreclosed real estate to mortgages owned average 1.26 per cent.

Describing this ratio as surprisingly low, the speaker stated that sales in process now and plans contemplated for the future are likely to decrease this figure.

"There is a growing acceptance in the belief of what may be termed the 'law of periodicity,'" said Mr. Kingsley. "We all recognize that investment urge and popularity move in cycles. Within our own lives we have seen stocks, bonds, mortgages and real estate take turns in occupying the high spot of attention from investors. Each has had its peak of prominence and attendant profit and later become the object of neglect and distrust, largely because they could not stand up under the strain of expectation optimistically imposed by the borrower.

"It should be kept well in mind that the break in the stock market last week, while very disturbing, did not destroy money. It caused the froth of artificial value to disappear and revealed the substance. The real money involved has been redistributed and is now more widely

held by those who will seek more staple forms of investment; such as mortgages and well seasoned bonds.

"Before there can be a resumption of heavy trading in stocks, there is much underbrush to be cleared away. It is significant that, as in all times, life insurance stands out as an asset that has not depreciated.

"The loyalty of the farmer in the face of existing temporary hardships calls for our highest and most sincere admiration. He knows that the sun is just behind the clouds and that it will shine on him again if he is patient. Agriculture will always be the world's greatest industry and it is too basic to ever go bankrupt."

In recognition of the desire of architects, building contractors and owners for a definite time guaranty on all building materials, the Rubber Flooring Manufacturers' Division of The Rubber Manufacturers' Association has adopted the following guaranty on rubber tile flooring:

"We guarantee our product against defects provided our recommended cleaning instructions are followed and we will repair or replace any such defective product which is brought to our attention, in writing, within one year after date of completion of installation. We do not accept responsibility for any damages arising from defects or dampness in sub-floors or other surfaces which may occur after completion of installation."

This guaranty takes the place of any and all guaranties or warranties previously supplied. The new guaranty applies to all installations supplied by the manufacturers from September 25, 1929.

To obtain the most satisfactory results from oak floors, care should be taken in

the laying of the sub-flooring, the Oak Flooring Manufacturers' Association announced in a statement analyzing causes of complaints.

No matter how expensive or well constructed a house may be, it will not stand up satisfactorily if it does not have a good foundation. The same thing, the association says, is true of floors. If they have poor foundations in the way of rough, uneven or poorly nailed sub-flooring, they are likely to give trouble, whereas if the sub-flooring is properly put down, an oak floor should give perfect satisfaction and last indefinitely, the association said.

"In the last few years members of our association, who comprise nearly the entire oak flooring industry, have received several complaints about squeaky floors," said the association's statement, issued by W. L. Claffey, secretary. "These complaints represented an almost negligible proportion of the oak flooring laid, but we were satisfied there was something wrong with installation methods, so each complaint was investigated.

"In every instance we found the trouble was not with the oak flooring, but with the sub-flooring. Sometimes cheap second-hand lumber was used between the joists and the oak with the result that the sub-flooring was uneven. Again knotty lumber was used and the nails would not hold. And on several occasions we found that a good sub-flooring had been laid but that it had been covered by cement and mortar in the building operations and had not been properly cleaned before the top floor was put down."

On one inspection there were squeaks in all rooms. The Inspector nailed certain places through the face to eliminate them, but the squeaks remained.

Going to the cellar he found that the 10-inch shiplap laid diagonally, had been used for sub-flooring. The upper lip of the shiplap had raised up after being exposed to the elements before the roof was put on. Of course that resulted in an uneven sub-floor and the floor squeaked. Describing the proper method of laying sub-flooring in order to prevent squeaks, the association statement said:

"The sub-floor, preferably of 1x6 inch boards, should be laid diagonally. The boards should be surfaced four sides—not tongued and grooved—and should be thoroughly air seasoned when laid and kept dry. Drive two nails at each joist to keep the boards from warping.

"Before putting down top flooring, be sure sub-flooring is clean. Small particles of cement, mortar or dirt falling on it during the building operations will create an uneven surface if they are not removed. Concrete form lumber should not be used.

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"It is well to use damp proof paper between the oak flooring and the sub-floor. Do not use ordinary building paper or rosin sized paper. The quantity required is small and the very best quality of damp proof stock should be used. This will prevent dust as well as moisture coming through the floor from the basement.

"Where sound-proof results are desired, a heavy deadening felt is recommended.

"It is very important to leave about $\frac{1}{2}$ inch space on all sides between the oak floors and the base board to allow for expansion in event that any dampness later gets into the oak flooring. This opening is covered by the quarter round or base moulding."

The statement explained that the laying of the sub-floor diagonally gives strength to the structure and permits the oak flooring to be laid in either direction.

In laying the oak flooring, nails should be driven through the side, just above the tongue, at an angle of about 50 degrees. After laying and nailing three or four pieces use a short piece of hardwood about 2x4 placed against the tongue and drive it up. Care should be taken in driving up $\frac{3}{8}$ inch flooring not to break the tongue which is fragile. Also do not drive up excessively tight.

The statement said that when oak flooring is laid over old floors it should be put down at a right angle to the old boards and that the old floor should first be made smooth.

ASH-CANS FACE OBLIVION

The ash-can is facing extermination, starting in the cellars of office buildings, theatres, hotels, apartment houses and the boiler rooms of factories and such places. Ashes now can be removed expeditiously and economically, with a minimum of labor and with no diffusion of dust, by an electric-pneumatic suction system through a pipe-line reaching from sidewalk to ash pit.

The equipment comprises an ash-handling truck containing a large hopper into which the ashes are drawn by suction, and from which they are conveyed by a totally-enclosed belt-conveyor to a carrier-truck which takes them away.

The ash-handling truck is equipped with the gas-electric drive now in wide use for heavier vehicles and already introduced for automobiles of the ordinary type. Power for operating the suction system and the conveyor-belt is obtained by connecting the electric generator to the proper motor and running the engine at suitable speed while the truck is parked.

The first of these new ash-handling trucks has been put in service in New York City by the Pneumatic Conveyors

Corporation. It was designed and built by the American Car and Foundry Motors Company, and was electrically equipped by the General Electric Company.

The suction is provided by a centrifugal compressor, rated at 6,000 cubic feet per minute at a speed of 3500 revolutions per minute and driven by a 40-horsepower motor. The truck is equipped with piping capacity permitting a suction of 2800 cubic feet per minute, equivalent to a velocity of 145 feet per second in the intake pipe. This means that ashes equivalent to the contents of a dozen standard ash-cans can be drawn up every minute to a distance of 30 feet.

Later there will be undertaken the design of a smaller unit, provided with a flexible pipe-line, which can be used for removing ashes from the cellars of residences. These present unit, intended for large buildings, is equipped with a permanent rigid pipe-line, extending from sidewalk to ashpit.

The conveyor truck connects to this pipe-line at the sidewalk opening by means of a pipe section attached to the truck and connecting to the hopper. This pipe section is lowered into place and tightly connected at the sidewalk opening by means of a pipe section attached to the truck and connecting to the hopper. This pipe section is lowered into place and tightly connected at the sidewalk with the permanent pipe-line so that no dust escapes to the outside air at any point.

In addition to the removal of ashes from cellars, the pneumatic conveyor truck can function with efficiency and economy in unloading coal barges. In that field of application it is expected the truck will prove as useful in proportion as in the elimination of ash-can handling and dust-filled air which are now aggravating accompaniments of the removal of ashes from cellars in cities and towns.

ECONOMIC FACTORS IN DEVELOPMENT OF SAND AND GRAVEL PROJECTS

While the production of sand and gravel in this country has shown a tremendous increase in recent years and the construction program of the Nation will naturally call for enormous quantities of these materials in the future, there are various economic factors in the development of new sand and gravel projects which should be given serious consideration by the operator if financial profit is to be assured, says the United States Bureau of Mines, Department of Commerce.

At the present rate our sand and gravel reserves are being depleted at the rate of more than 4,000 acres per year, states J. R. Thoenen in Economic Paper 7, just published by the Bureau of Mines. This would be infinitesimal if all the area known to contain sand and gravel were composed of commercial deposits. Much of this area is known to be patchy, as small deposits of good material are mixed with larger deposits of low-grade material. Also, much of it is at too great a distance from consuming centers, but as new roads and railroads are built it will become accessible to markets of the future.

Such a large increase in volume in any industry would inevitably encourage the development of new production either in the expansion of going concerns, the starting of new operations, or both. The apparent ease with which new sand and gravel operations can be started greatly facilitates this expansion.

Sudden and rapid expansion has undoubtedly resulted in the creation of new projects in the sand and gravel business without adequate study of economic conditions. A survey of the situation made

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by the Bureau of Mines indicates that production over the whole country has not yet reached saturation. Curves for individual States, however, tell a different story and indicate that the local situation is rapidly approaching a condition of saturation, if not overproduction.

Sand and gravel are disintegration products of various rocks. Disintegration starts with the solution of various mineral constituents of the rock by surface waters and is assisted by the disruptive action of freezing. Abrasion during transportation by running water and glaciers continues the crumbling and results in fragmentation ranging from boulders to fine silt.

Sand and gravel transported by running water would be more or less classified into sizes were it not for the complications induced by flood conditions. Even then such deposits often exhibit decided differentiation in sizing.

Glacial action, on the other hand, by carrying a heterogeneous assortment of material and depositing it all in one locality, leaves a complicated mess of all kinds and sizes of material. The origin of any local deposit, therefore, is of considerable economic significance.

Where a demand for a certain class of sand or gravel exists without adequate supply, perusal of State or National geologic reports may uncover a near-by source. Study of these reports may also uncover information pointing to certain characteristics of a deposit rendering it applicable to specialized market. By obtaining the geologic reports covering a particular vicinity one may learn whether a sand and gravel deposit is of glacial or steam origin, and, therefore, whether it is apt to contain a partly classified prod-

uct or a heterogeneous mixture of all sizes and classes of material. If of stream origin, it may contain sands peculiarly suited to certain special markets. If of glacial occurrence, further exploration for a special kind of material may be useless, and thus considerable time and expense may be saved.

The beds of streams, lakes, and oceans form potential sources for sand and gravel and a large proportion of our production comes from such sources. A search along the banks of streams or lake and ocean beaches is entirely in order for preliminary survey. Dredging operations many times divulge workable deposits. In streams, sand and gravel deposits are most likely found on the inner side of bends and may often form the bank on that side.

In searching for sand and gravel deposits one can not confine his hunt to bodies of water, however, and many sand and gravel deposits, while originally water formed, were deposited so long ago that all evidence of the depositing agency has vanished. Here again a study of geologic data is invaluable. The geologist, from his general knowledge and specific studies, can trace the courses of prehistoric rivers and predict the occurrence of gravel deposits.

The quality of any particular deposit depends on the origin of the materials that compose it and also the distance and manner of travel. Thus, glacial action may have carried quantities of the harder rocks, such as basalt, granite, and quartzite, for a long distance and then picked up sandstone, limestone, and shale, mixing them unevenly and depositing them together.

Probably the four largest markets for sand and gravel are for use as concrete

aggregate, road material, railroad ballast, and building sand.

The suitability of the product for a concrete aggregate depends on the nature of the construction. Large massive foundations do not require as careful and elaborate specifications as reinforced concrete building construction.

Engineers are as exacting in concrete road work as in reinforced concrete building constructions as to aggregate specifications. The prospective producer must make careful inquiries and find out the particular requirements of the territory he desires to serve.

Sand and gravel is used in three ways as a road material: (1) As a concrete aggregate; (2) mixed with some bituminous material; and (3) in the raw state for gravel roads or as a subbase for other surface material.

A large percentage of the gravel produced is used as railroad ballast. The various roads differ considerably in their specifications for this material, some requiring a washed gravel and others accepting bank-run material containing considerable clay.

Building sand is usually classified as material passing a one-quarter inch screen, but recently engineers have become more critical, and the finer particles or dust must first be removed by a suitable washing process or some other method. The shape of the sand grains is sometimes specified, rounded or weathered grains being preferred to sharp-edged or angular material, and vice versa, although this applies more to special sands. Specifications for building sand at the present time almost universally require washed material.

The demand for an adequate supply of sanitary water for domestic purposes in cities and rural communities has created a large market for certain classes of sands suitable for filter purposes. These sands should be of uniform grain size within certain limits so as to allow a maximum pore space for rapid filtration. They should also conform to certain chemical requirements, as certain mineral constituents possess better filtration properties than others.

Brass and steel foundries require large amounts of moulding sand which must satisfy another set of specifications both as to grain size and composition. Also, molding sands for iron and steel differ in certain respects from those used for brass.

Other special sands, either because of special treatment of one kind or another, or because of their chemical composition, are peculiarly adapted to certain uses. Examples of these are glass sands used in the manufacture of window, plate, and bottle glass and engine sands used in large quantities by railroads and electric line.



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Before he enters the business the prospective sand and gravel operator should investigate and assure himself with regard to all the following points:

The deposit should be sufficiently large and uniform.

The market should be able to absorb the proposed tonnage in addition to that which will be furnished by existing sources of supply.

The deposit should yield material of a character that the market will accept or it can be made to do so economically.

The current prices and probable demands should be such as to indicate that the product can be sold for enough to cover not only operating but also overhead costs and in addition should yield a reasonable profit.

The method of excavation chosen should be economically suited to local conditions.

Enough capital should be available to cover initial investments in land and equipment and also to provide working capital during the early stages of operation.

Further information is given in Bureau of Mines Economic Paper 7, "Economics of New Sand and Gravel Developments," which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., at a price of 15 cents.

The increasing importance of structural engineering is caused by the modern building's enormous size, complicated construction and tremendous cost, and the responsibility for safe and economical construction. This makes it desirable under some conditions for the owner or investment banker to be assured of the adequacy and economy of the design. It is, then, their privilege to have the designs checked by a competent engineer acting as a consultant in the same manner as the architect's plan arrangement may be studied by an experienced renting agency or building manager. To such a procedure there is no reasonable objection.

It is incumbent, however, upon the consultant so retained to conduct the investigation in such a manner as to maintain an ethical attitude towards and not covertly and intentionally injure the original engineer. The consultant must limit his study to the designs submitted and maintain an impersonal attitude thereto. Should a difference of opinion or interpretation arise, it should be settled between the two parties if possible without reference or mention to any other parties. The purpose of both should be confined to producing a perfect design and rendering a complete service to the owner.

Among honorable engineers this is the manner of conducting their business, and with very rare exceptions the association

is terminated with mutual respect and cordial good will. There are instances, however, where the consultant deems it advisable for his selfish interest to insist on alteration, very often inconsequential, and to report the same to his client. The client has no knowledge of the real importance of the matter and may be unduly impressed with the ability and acumen of his consultant. This naturally redounds to the consultant's credit and prestige.

Egotism is not always the only motive for such a policy on the part of the consultant but it often is employed to destroy the confidence of the owner or investment banker in the original engineer and supplant him if possible. The consultant has the whip hand because he enjoys the entire confidence of the owner or investment banker and the original engineer may suffer an injustice in ignorance of the hidden influence against him.

It is only human—all bosh! Of all men we expect the engineer from the very nature of his business and its tremendous responsibilities to be competent, fair, unbiased and honest. Such qualities must engender characteristics of unselfishness and tolerance towards others, competitors or otherwise. To the credit of engineers as a body of professional men this is true.

Owners and investment bankers can have no desire to knowingly injure any person. In employing a consulting engineer it is for the sole purpose of conserving the property and investment. Is it then not incumbent on the employers of consulting engineers to exercise great judgment and care in selecting them? Select them not only for their real knowledge and experience but also for their fair dealing with their fellows. The man who is admired by his competitors is generally a pretty decent fellow and worthy of confidence.

Local professional organizations differ from national organizations in that the local organizations set up certain regulations pertaining to professional ethics which are suitable for local conditions. Unfortunately some few men do refrain from affiliating with such organizations and still observe correct relations with their fellow professionals and their clients. The non-membership of such men is a distinct disadvantage to the profession. On the other hand, other refuse to affiliate with the local professional organizations, so that they may be free to indulge in unethical conduct without censure. These persons are a real menace to the maintenance of a high standard of professional knowledge, service and responsibility.

We would hesitate to employ attorneys and physicians who are not affiliated with their local professional organizations. Why should the building owner or investment banker be less particular

about the affiliations of his consulting engineer?

Correct relations are the bases of social and economic welfare.

On the structural frame hang all of the building and its contents.

STOP, LOOK AND CONSIDER

Michigan has a marriage law which provides that five days must elapse between the date of the taking out of a marriage license and the performing of the marriage ceremony. The idea is, of course, to permit the contracting parties fully to make up their minds that they really want to be married.

Under its operation the first year in Detroit alone more than 1,000 couples changed their minds within this five-day period. And saved a lot of grief.

Some such protective provision should be inaugurated for inexperienced prospective home builders. It would likewise save a lot of woe.

Too many people build houses without knowing how, or why they use this, that or the other material. And suffer endless expense in consequence.

It would be fine if they could be induced to consider seriously the merits of materials before they decide just what they are going to use.

—*Building Economy.*

STILL A SAFEGUARD

Centuries ago a visiting potentate marveled at his royal host's lack of walled defenses about his city and voiced his wonder at this seemingly rash ignoring of the usual precautions. But the king only laughed in confident indifference.

According to the legend they were reviewing his legions, armed to the last word and ready for whatever might come. Waving his hand at the far flung ranks of his cohorts the king remarked something to the effect that there were his defenses, every man of them *a brick*.

That was a double-barreled compliment and down all the intervening ages it has been accepted as an expression of the highest esteem when applied to any man regardless of his walk in life.

The inference that the brick was a safeguard par excellence was unquestioned. The Chinese emphasized this in a manner practical and unmistakable.

Nor is it less a safeguard today against fire and deterioration and heat and cold which constitute in present-day life the home owner's chief menaces.

The brick has stood the test of time from whatever angle one cares to view it.

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Pettit, Frank, Ornamental Iron Works,
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FIREPROOFING

Pearce Fireproof Co. 1911 N. 2nd St., Phila.

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Livezey Linoleum Floors, Inc. . 128 S. 19th St., Phila.
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Montgomery Iron & Steel Co. . 2500 Duncan St., Phila.
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LINOLEUM

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LUMBER

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Italian Marble Mosaic Co. . . 433 Spruce St., Phila.
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Mayflower Products Co. . . . Plymouth Meeting, Pa.

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Keen Kote Co., Inc. 17th & Parkway, Phila.
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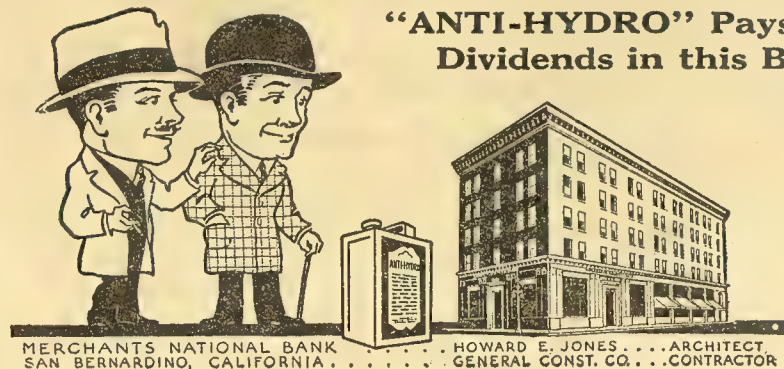
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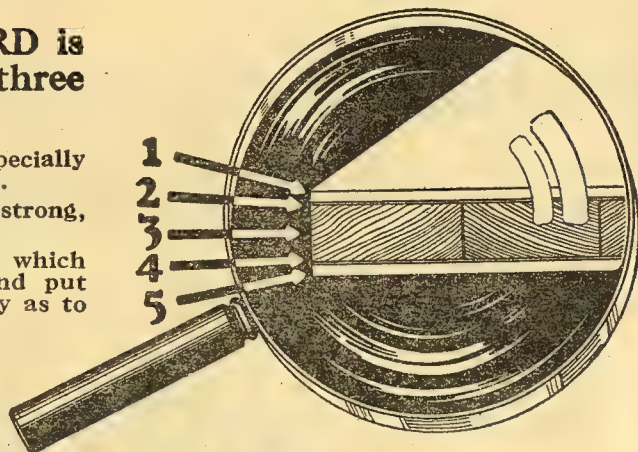
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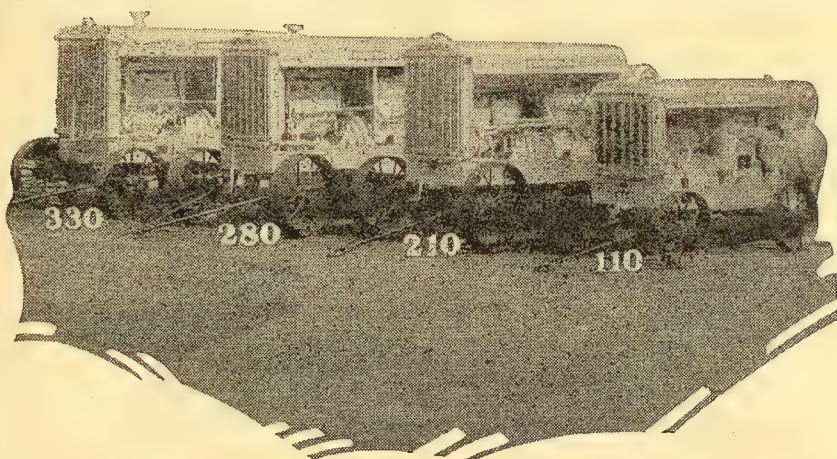
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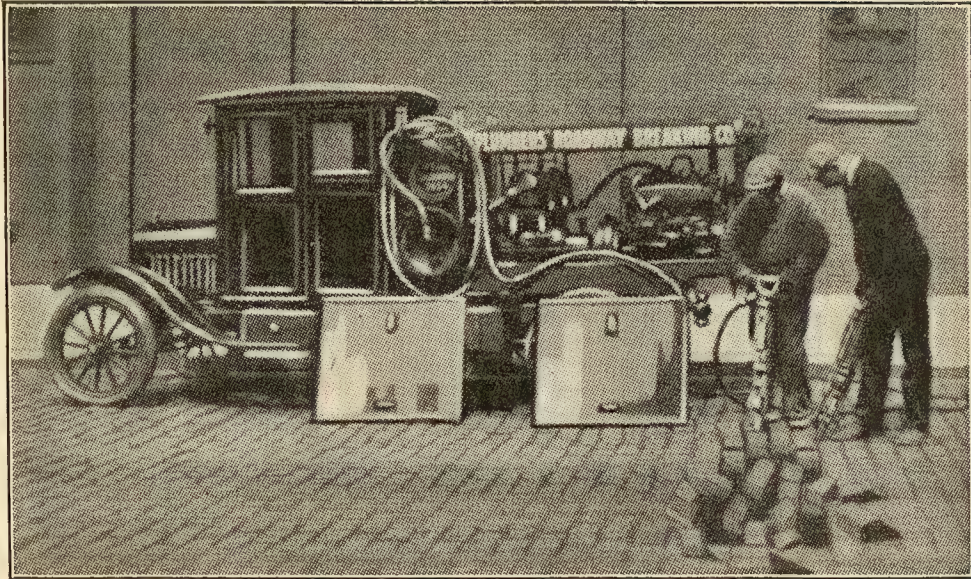
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
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VOLUME XLIV
Number 48

PHILADELPHIA
November 27, 1929

BUILDERS' GUIDE

PUBLISHED WEEKLY

BY

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1530 CHESTNUT ST., PHILADELPHIA

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Philadelphia Marine Hospital, \$75,000. Philadelphia, Pa. Work contemplated. Architect, not selected. Owners, United States Government, Washington, D. C.

Appraisers' Store, \$1,500,000. Philadelphia, Pa. Work contemplated. Architect, not selected. Owners, United States Government, Washington, D. C.

Office Building, Twenty-fifth and Stokeley streets, Philadelphia. Preliminary plans in progress. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, General Outdoor Advertising Co., Eighteenth and Noble streets, Philadelphia. Brick, steel, 1 story, 87x424 feet.

Office Building, \$150,000. Southwest Corner D and Erie avenue, Philadelphia. Plans in progress. Architects and engineers, United Engineers & Constructors, 112 North Broad street, Philadelphia. Owners, Grinnell & Co., Inc., F. B. Reiter, Seventeenth and Sedgley avenue, Philadelphia. Brick, steel, 2 and 1 stories and basement, 67,000 square feet.

Alterations and New Store Front, \$100,000. 930-32 Chestnut street, Philadelphia. Plans in progress. Architects, Dennison & Hirons, 288 Lexington avenue, New York City. Lessees, Childs Restaurant, Mr. F. B. Van Dorn, 200 Fifth avenue, New York City.

Service Station, Penn street, North of Harrison street, Philadelphia. Plans in progress. Architect, private plans. Owners, Atlantic Refining Co., A. J. Cutting, 3144 Passyunk avenue, Philadelphia, Pa.

Store and Restaurant Building, East side of Old York road, North of West avenue, Philadelphia. Plans in progress. Architect,

private plans. Owners, Horn & Hardart Baking Co., 208 South Warnock street, Philadelphia. Harry R. Rust, 41 North Hutchinson street, Philadelphia, will build.

Warehouse, Torresdale avenue and Kinsey street, Frankford, Philadelphia. Architects taking bids due November 30th. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Crane Co., M. D. Robinson, 1301 Locust street, Philadelphia. Brick, reinforced concrete, granite, 1 story and basement, 105x58 feet, demolition, excavation, stone masonry, cement floors, floor hardener, Zenithern floors, waterproofing, terra cotta coping, structural steel, iron work, brass work, steel sash, fire doors, slag roof, rolled steel skylights, wood roof deck, Zenithern wall finish, mastic wall finish, mastic floors, metal lath, plastering, metal toilet partitions, painting and glazing (plumbing, heating, electric work, sprinkler system reserved by architect).

Residences (24), West Chester Pike and Sixty-fourth street, Philadelphia. Owner will take sub-bids. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut street, Philadelphia. Brick, stone, 2 stories, 18x36 feet, hot water heat, slag roof, hollow tile.

Convention Hall, Thirty-fourth and Vintage avenue, Philadelphia. Architect taking revised bids due December 10th. Architect, Philip H. Johnson, 1034 Widener Building, Philadelphia. Owners, City of Philadelphia, Hon. Harry A. Mackey, City Hall, Philadelphia. Deposit, \$150; \$75 refunded. Certified check.

Store Building, \$65,000. 1706 Rittenhouse Square, Philadelphia. General contractor, care of Frank Green, 1221 Washington Lane, Philadelphia, taking sub-bids due as soon as possible. Architect, private plans. Owners, Estey Reed Organ Studios, Mrs. T. M. Quimby, 1702 Walnut street, Philadelphia. Brick, concrete and steel, limestone trim, 3 stories, 16x63 feet, steel sash, hot water heat, oil burner, slag roof, sheet metal work, oak and maple floors, dumb waiter, concrete floors, plate glass.

Circuit Breakers, etc. Electrical Work, etc. Sixteenth and Spring Garden streets, Philadelphia. Owners taking bids due December 6th, 3 P. M. Owners, United States Mint, Sixteenth and Spring Garden streets, Philadelphia. Furnishing labor and material required for installing circuit breakers, etc., on D. C. generator switchboard in the United States Mint, Sixteenth and Spring Garden streets, Philadelphia, Pa. Specifications may be obtained from Custodian of United States Mint, Philadelphia, or James A. Wetmore, Acting Supervising Architect, Washington, D. C.

Electric Elevators, United States Marine Hospital, Philadelphia. Owners taking bids due December 3rd. Architect, James A. Wetmore, United States Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Performance bond 50 per cent. of contract.

Water Meters and Plumbing Materials, various schools and warehouse. Owners taking bids due December 3rd, 1 P. M. Owners, School District of Philadelphia, Edward Mer-

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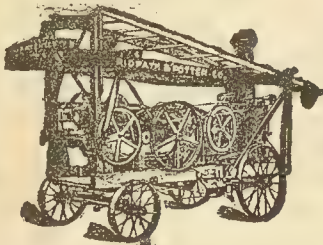
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Permanent Bridge, Market street, over Schuylkill River, Philadelphia. Plans in progress. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, City Hall Annex, Philadelphia. 100 feet wide, clearance 27,314 feet, two 164-foot arches.

Temporary Bridge, Market street, over Schuylkill River, Philadelphia. Owners ready for bids about January 1st. Owners, City of Philadelphia, Department of City Transit, City Hall Annex, Philadelphia. Steel, 22½ feet clearance.

Supplies, etc. Owners taking bids due November 29th, noon. Owners, Department of Supplies and Purchases, Room 302, City Hall Annex, Philadelphia. Furnishing and delivering street traffic signals, steel poles, cast iron water pipes, steel pressure tank, paints and paint oils, varnishes and glass. Certified check, 5 per cent. of bid. Bids opened Room 305.

Residences (11), \$47,000. North side Snyder avenue, West of Etting street, Philadelphia. Permit issued. Architect, William P. Cameron, 4850 North Mascher street, Philadelphia. Owner, Burton C. Simon, Inc., Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 16x28 feet, 12 feet 10 inches x 12 feet 3 inches, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (6), \$30,000. South side Allen's Lane, West of Ardleigh street, Philadelphia. Permit issued. Architect, private plans. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Brick, 2 stories, 14x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

Residences (12), \$33,800. West side Twenty-eighth street, North of Moore street, Philadelphia. Permit issued. Architect, private plans. Owners, Bianchi & O'Neill, 5724 Chester avenue, Philadelphia. Brick, 2 stories, 18x30 feet, slag roof, pine floors, electric light.

Greenhouse, \$4,000. Northwest Corner Bustleton avenue and Cottman street, Philadelphia. Permit issued. Architect, private plans. Owners, Aschmann Brothers, Second and

Bristol streets, Philadelphia. Concrete, 28 feet 6 inches x 152 feet.

Store, \$2,500. 4431 North Fifth street, Philadelphia. Architect, private plans. Owner, Lewis Dietrich, 6948 Torresdale avenue, Philadelphia. Brick, 1 story, 28x57 feet 4 inches. Permit issued.

Fire Stations (2) (alts. and improvements). 3025 Gray's Ferry road and Seventh street above Carpenter street, Philadelphia. Low bidders. Architect, William S. Covell, 1022 City Hall Annex, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, Bureau of Fire, City Hall Annex, Philadelphia. John Devlin, Jr., Hancock and Thompson streets, Philadelphia, \$5,470; L. Lombardi & Brothers, 201 East Wister street, Philadelphia, \$5,600.

Contract 223. South street, to North of Girard avenue, Philadelphia. Low bidder. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, City Hall Annex, Philadelphia. Compact rail and bonding track. M. & J. B. McHugh, 892 North Markoe street, Philadelphia, \$47,080.25.

Furnishing and Laying Six-inch, Eight and Twelve-inch Pipe in various streets, Philadelphia, Pa. Owners, Department of Public Works, Bureau of Water, Alexander Murdoch, Director, Department of Public Works, Room 903, City Hall Annex, Philadelphia. Low bidder: M. & J. B. McHugh, 892 North Markoe street, Philadelphia, \$87,151.75.

Residences (9), South side Vernon Road, west of Sprague Street, Philadelphia. Permit issued. Architect, private plans. Owners, West End Building Corporation, 913 E. Allegheny Avenue, Philadelphia. Brick, 2 stories, 18x30 feet, slag roof, hot water heat, electric light.

Building (add.), \$5,000. 3316 Fairmount Avenue, Philadelphia. Permit issued. Architect, private plans. Owner, W. T. Spriz, on premises. Brick, 3 stories addition, 30x17 feet and 30x15 feet.

Apartment Building (alts. and add.), \$4,500. 3318-20 Fairmount Avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Willis Spriz, 3316 Fairmount Avenue, Philadelphia. Brick, 2 stories addition, 25½x-16 feet, general alterations.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Fire Station (alts.), Engine Company No. 53, Fourth and Snyder avenue, Philadelphia. Contract awarded Man Camp Construction Co., 1033 Chestnut street, Philadelphia. Architect, W. S. Covell, City Hall Annex, Philadelphia. Owners, Department of Public Safety, City Hall Annex, Philadelphia. Bond, demolition, cement and concrete, waterproofing, floor hardener, stone work, brick, structural steel, iron work, Barrett specification roof, wood roof deck, skylights, metal lath, plastering, marble and tile work, composition

floors, metal lockers, metal weather strip, carpentry and mill work, screens, painting and glazing.

Residence and Garage, Chestnut Hill, Pa. Contract awarded E. J. Heinke, 505 Church road, Elkins Park, Pa. Engineers, Marshall & Tyler, 1524 Chestnut street, Philadelphia. Owner, Hamilton D. Carpenter, 600 East Phil-Elena street, Philadelphia. Stone, 2½ stories and basement, 40x75 feet, hot water heat, electric light, metal lath, tile, bond, slate roof, oak and yellow pine floors, steel

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Manufacturing Building (add.), \$35,000. 1214-16-18 Buttonwood street, Philadelphia. Contract awarded J. H. Terry Co., Drexel Building, Philadelphia. Architect, A. B. Harding, Drexel Building, Philadelphia. Owners, F. Weber Co., 1220 Buttonwood street, Philadelphia. Concrete, 42x56 feet, 5 stories.

Residence, \$6,000. Northwest Corner Gaul and Tioga streets, Philadelphia. Contract awarded A. A. Construction Co., 1011 Chestnut street, Philadelphia. Architect, private plans. Owner, J. M. Kennedy, Jr., 406 Van Pelt street, Philadelphia. Brick, 2 stories, 17 feet 10 inches x 30 feet, hardwood and pine floors, hot water heat, electric light.

Home (alts.), \$5,000. Northwest Corner Washington Lane and Greene street, Philadelphia. Contract awarded Harry L. Watson, Fox Chase, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Friends' Home (Germantown), on premises. General alterations.

Garage, \$2,800. 4118 Manayunk avenue, Philadelphia. Contract awarded Moses Le Pere, 4335 Mitchell street, Philadelphia. Architect, private plans. Owner, F. Hansberry, on premises. Stone, 1 story, 100x20 feet, cement floors, electric light.

Hotel (alts.), \$2,300. Southwest Corner Thirty-ninth and Chestnut streets, Philadelphia. Contract awarded Smyser-Royer Co., 1700 Walnut street, Philadelphia. Owners, Hotel Pennsylvania, on premises. General alterations.

Office Building, \$7,000, west side Main St., south of Leverington Street, Philadelphia. Contract awarded C. M. Swartley and Son, 6835 Ridge Avenue, Philadelphia. Architect, Ralph J. Lawrence, E. Gates Street, Roxborough, Philadelphia. Owners, S. S. Keely & Son, Main and Umbria Streets, Philadelphia. Brick, 8 stories, 50x30 feet, slag roof, pine floors, electric work, plumbing, bond, ornamental iron work.

Shop, \$2500. Northwest corner Parrish & Sloan streets, Philadelphia. Contract awarded E. C. Haldeman, 3438 North Twentieth Street, Philadelphia. Architect, private plans. Owner, Al Leibowitz, 1202 North American Building, Philadelphia. Brick, 1 story, 45x70 feet.

Pennsylvania Construction News

Undergraduate School, Chester County, adjoining Valley Forge Park in Tredyffrin Township, Pa. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Work contemplated. Tract of 177 acres.

Elizabeth B. Toppitzer Memorial Home, for orphan children and crippled children. Site not selected. Work contemplated. Charter applied for. Architect, private plans. Owners, Delaware County Memorial Home, care of George C. Toppitzer, 532 Harper avenue, Aronimink, Pa.

Middle District Court House, \$225,000, Pennsylvania. Contemplated. Architect, not selected. Owners, United States Government, Washington, D. C.

Bank, \$100,000. Quakertown, Pa. Work contemplated. Architects, Tilghman-Moyer Co., 14 North Ninth street, Allentown, Pa. Owners, Merchants' National Bank, J. H. Shelly, President, North Broad street, Quakertown, Pa.

School, Enhaut, Pa. Plans in progress. Architect, B. E. Starr, 7 South Second street, Harrisburg, Pa. Owners, St. John's Roman Catholic Church, Rev. John H. Weber, 623 South Second street, Steelton, Pa. Brick, steel, 2 stories and basement, 6 rooms and auditorium.

High School Building, \$80,000. West Conshohocken, Pa. Working plans in progress. Will take bids about January 1st. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Montgomery County Commissioners, Alvah S. MacKenzie, President, West Conshohocken, Pa. Brick and stone, will contain class rooms, gymnasium and auditorium.

Hotel, Mt. Pocono, Pa. Plans in progress. Architects, Charles R. Peddle, 136 South Fourth street, and Simon Wasserman, 136 South Fourth street, Philadelphia. Owner, name withheld. Stone, 4 stories and basement, 60 rooms.

School, Folcroft, Pa. Preliminary plans in progress. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owners, Folcroft Borough School District, E. P. Roulston, Secretary, Folcroft, Pa. 2 stories, brick and steel, 8 rooms and auditorium seating 500.

Church and Sunday School, Hamorton, Chester County, Pa. Plans completed. Architects ready for bids in a few days. Architects, H. Rex Stackhouse and W. W. Donohue, 313 South Smedley street, Philadelphia. Owners, Hamorton Methodist Episcopal Church, Hamorton, Pa. Stone, 1 story and basement, 60x50 feet, vapor heat, electric light, metal lath, slate roof, maple and cork floors, flagstone floors.

Volunteer Firemen's Memorial Museum, \$10,000. Valley Forge, Pa. Work contemplated. Architect, not selected. Owners, State Volunteer Firemen, care of Charles Clark Wayne; Hiram Ganser, Chairman, Building Committee, Valley Forge, Pa.

Residence (alts. and add.) to Apartment, 154 East Philadelphia street, York, Pa. Plans

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in progress. Architect, H. R. Lenker, 25 North Duke street, York, Pa. Owner, L. R. Smith, on premises. Brick, 3 stories, 27x80 feet, tile and tin roof, hardwood floors, city steam heat, electric light, tile work.

Auditorium, \$1,000,000. York, Pa. Sketches in progress. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owners, York Auditorium Co., J. H. Speck, President, 261 West Main street, Dallastown, Pa. Brick, fireproof, 7 stories, 200x220 feet.

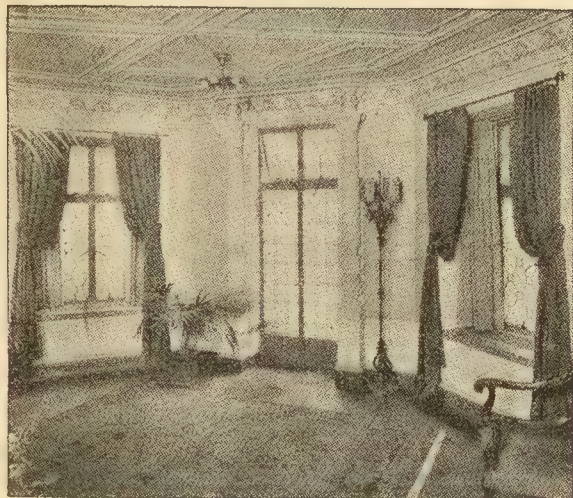
Fraternity Home, State College, Pa. Preliminary plans in progress. Architect, Henry L. Reinhold, Jr., 10 South Eighteenth street, Philadelphia. Owners, Pennsylvania State College, State College, Pa.

Grade School, Bridgeport, Pa. Architect selected. Preliminary plans in progress. Architects, Charles R. Peddle; Simon Wasserman, associate, 136 South Fourth street, Philadelphia. Owners, School Board of Bridgeport, Bridgeport, Pa.

Stores (20) and Dance Hall, Fifth and Water streets, Chester, Pa. Plans in progress.

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Architect ready for bids in 3 weeks. Architect, A. Coshland, Chester, Pa. Owner, R. W. Beneke, Chester, Pa. Brick, steel, 2 stories and basement, 46x120 feet, steam heat, electric light, slag roof, cement and oak floors.

Central Heating Plant, Upper Darby, Pa. Charter granted, work to start January 1st. Architect, private plans. Owner and builder, John M. Arovitch, Drexel Hill, Philadelphia. Brick and steel, 1 story, 65x75 feet.

Post Office, Tyrone, Pa. Owners taking bids due December 19th, 3 P. M. Architect, James A. Wetmore, United States Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Deposit, \$15.

School, Newport road, Bristol Township, Pa. Architects taking bids due December 12th. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Bristol Township, Ira C. Brown, President, Bristol, Pa.

Residence (alts.) to --Family Apartment, Orwigsburg, Pa. Architects will be ready for bids this week. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owner, Harry Feagley, Orwigsburg, Pa. New bath, tile work, plastering, painting, brick work, heating, plumbing, electric work.

Store (alts.), Chester, Pa. Owner taking bids. Architect, A. Coshland, Chester, Pa. Owner, P. D'Amato, 317 Kerlin street, Chester, Pa. Alteration and new store front.

Cottage, Millersville, Pa. Architect will be ready for bids in ten days. Architect, C. Emilen Urban, Woolworth Building, Lancaster, Pa. Owners, Millersville State Teachers' College, H. Edgar Shertz, Secretary, 42 North Duke street, Lancaster, Pa. Brick, 3 stories, 40x60 feet, hardwood floors, hot water heat, oil burners, electric light, tile work.

Apartment House, \$115,000. Ridley Park, Pa. Owners taking revised sub-bids due as soon as possible. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owners, Coll & Kelly, 2001 Pine street, Philadelphia. Brick, stone, steel, 3 stories and basement, steam heating, electric light, metal lath, tile, slag roof, oak and yellow pine floors, electric refrigeration.

Apartment House, Swarthmore, Pa. Architect and owner will take sub-bids in 2 weeks. Architect, Oliver Randolph Parry, Fourth and Chestnut streets, Philadelphia. Owner, D. Webster Anders, 6372 Columbia avenue, Philadelphia. Brick, 4 stories and basement, 28 apartments, hot water heat, oil burners, electric light, metal lath, tile, bond, slag roof, oak and yellow pine floors, cement floors, ornamental iron work.

Lodge Building, \$45,000. Chestnut and High

streets, West Chester, Pa. Architect taking bids due December 4th. Architect, William Corcoran, 139 East Biddle street, West Chester, Pa. Owners, West Chester Lodge, Loyal Order of Moose, care of architect.

Cottage, Buck Hill Falls, Buck Hill, Pa. Buck Hill Association, Buck Hill, Pa., will build. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, C. V. Roberts, 6439 Cherokee street, Philadelphia. Stone, clapboard, 2½ stories and basement, 100x40 feet, hot air heat, electric light, asbestos shingle roof, pine floors, plumbing.

Residence, Emilie, Pa. Plans in progress. Architect ready for bids in week. Architect, Paul Cret, 112 South Sixteenth street, Philadelphia. Owner, Dr. Milton J. Greenman, Thirty-sixth and Woodland avenue, Philadelphia. Cinder block and stucco, 2½ stories and basement.

Residence Development, \$2,000,000 (about 31 residences), East-Town Township, Chester County, Pa. Tentative plans drawn. Will soon take bids on grading and paving. Owners, R. J. Seltzer and A. W. Hall, Fifteenth and Locust streets, Philadelphia. Stone, various sizes and types.

Railroad Bridge, \$125,000. Swedesford road, Montgomery County, Pa. Tentative plans drawn, subject to approval by Public Service Commission. Architect, private plans. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Engineer, Clark Dillenback, Reading Terminal Building, Philadelphia. Concrete and steel work.

Residence and Garage, Bryn Mawr, Pa. A. W. Hopson, Llanerch Estates, will build and will take sub-bids in one week. Work to start in 2 weeks. Architect, Ralph L. Colton, 1520 Locust street, Philadelphia. Owner, J. Harkey Reiter, 593 Barrett avenue, Haverford, Pa. Brick, 28x114 feet, wood shingle roof, electric work, hot water heat, wood sash, tile bath.

Residence (add.), Haverford, Pa. Architects taking bids due as soon as possible. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Robert W. Lesley, Pennsylvania Building, Philadelphia. Brick, 2 stories and basement, 11x18 feet, slate roof, oak and yellow pine floors.

Street Lighting Using Pedestal Light and Underground Cable, approximately 25,000 feet long. Owners taking bids due November 29th. Architect, private plans. Owners, City of Norristown, F. Lester Smith, Clerk. Airy street, Forrest to Sandy street, between Airy and Florence street, Norristown, Pa. Certified check, 5 per cent. Bond, 80 per cent. Plans on file in office of Superintendent of Electric Plant, City Hall, Norristown, Pa.

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Heating Control System Repair, various schools, Chester, Pa. Owners taking bids due December 9th, 8 P. M. Owners, Chester City School District, Charles E. Sanderson, Secretary, Broad and Crosby streets, Chester, Pa.

Repairs and Remodeling Building, 223-27 Chestnut street, Philadelphia. Low bidders. Architect, James A. Wetmore, Acting Supervising Architect, Treasury Building, Washington, D. C. Owners, Treasury Department, U. S. Marine Hospital, Phila. General repairs and remodeling. F. W. Van Loon, Lafayette Building, Philadelphia, \$29,967; Thomas J. Whelan, 214 South Forty-ninth street, Philadelphia, \$31,700; Lam Building Co., 1001 Wood street, Philadelphia, \$32,659.

Central Electric Switching Room, West Conshohocken, Pa., \$51,000. Engineers will build. Engineer, United Engineers and Constructors, 112 North Broad st., Phila. Owner, Philadelphia Electric Co., 10th and Chestnut sts., Philadelphia.

Residences (90), Chester, Pa. Plans completed. Architect, Paul J. Jossier, 242 Broad Avenue, Palisade Park, N. J. Owner, care of Architect. Brick veneer, frame, concrete foundation, 2½ stories and basement, asphalt shingle roof, hardwood and tile floors, plastering, glazing, steam heat, tile work.

Administration Building Receiving Office and Ward Building, North Waymart, Pa. Owner taking bids due Dec. 6th, 2 p. m. Architect, Charles Hillman and Son, 400 Chestnut Street, Philadelphia. Owner, Fairview State Hospital, Commonwealth of Pennsylvania, Frank St. Clair, Jr., Chief Engineer, Division of Property and Supply, Harrisburg, Pa. Plans and specifications may be obtained from Frank St. Clair, Jr. Deposit \$25.00 refunded each set. General Cons., Plumbing, heating and electric work, ventilating. Bond 100%.

Cardington Bridge Repairs, 61. Over Cobb's Creek Blvd. and Marshall Road, Upper Darby, Pa. Owner taking bids due December 10th, 10 a. m. Engineer, County Engineer, Media, Pa. Owner Delaware County Commissioner, Geo. T. Wades, Controller, Media, Pa. New stone, masonry, retaining wall, new floor system, new sidewalks. Certified check \$1,000.

Finished Hardware Lighting Fixtures at New Consolidated School Bldg., Owner taking bids due December 11th, 8 p. m., S. T. Architect, Ritter and Shay, Packard Bldg., Philadelphia. Owner, School District, Upper Merion Township, Monroe A. Evans, Secretary, King Manor, Bridgeport, R. F. D. No. 1. Certified check \$100 each.

Cabins (20), Mess Hall and Recreation

Centre, Hunterdon Co., 6 miles from Clinton N. J. Site purchased. Work contemplated. Architect, not selected. Owner, Diocesan Council of Parent Teacher Association, care of Rev. Thos. J. Hannon, chairman Blessed Sacrament Church, Trenton, N. J. 134 acres, dam, log cabins, baseball field, tennis court and running track.

Medical Arts Annex and Apartments, \$400,000. Northeast corner Broad and Potter Sts., Chester, Pa. Project approved. Plans in progress. Architect, Edward T. Georgi, 16 Van Corlear St., New York City. Owner, Harry Colen, care of Architect. Brick, steel, reinforced concrete, 8 stories and basement, 72 apartments.

Road Work, Pennsylvania. Low bidders (Nov. 22nd letting). Owners, Commonwealth of Penna., Department of Highways, Jas. L. Stuart, Secretary, Harrisburg, Pa.

Juniata Co., R-45, Spruce Hill and Turbett Townships. Grading and drainage. (1) bridge. H. A. Klein, Penbrook, Pa., \$63,951.

Erie Co., R-496, Girard Township. Grading and drainage. Pitt Const. Co., Pittsburgh, Pa. \$112,265.

Bucks Co., R-659, Saleburg, Upper Makefield and Wrightstown Townships, New Hope Borough. Grading and drainage. (1) bridge. Ross & Taylor, Inc., Trenton, N. J. \$95,269.

Montgomery Co., R-153, Whitmarsh Township over Sand Run, (2) span bridge, reinforced concrete, beam, excavation, one course reinforced concrete, plain steel bars, concrete. L. L. Keister, Lewisburg, Pa., \$22,249.

Cambria Co., R-276, Sec. 4 B-1, Portage Township, Portage Borough, (1) bridge, (1) span over Conemaugh River, plate girder, excavation, one course reinforced concrete pavement, plain steel bars, fabricated structural steel. Pittsburgh Des Moines Steel Co., Pittsburgh, Pa. \$25,546.

Bedford Co., R-47, Sec. 4, East St. Clair Township. One course reinforced concrete. grading and drainage, (1) bridge. E. H. and L. A. Brua, Jr., Hollidaysburg, Pa., \$51,432.

Montgomery Co., A-3961-A, Upper Dublin and Whitmarsh Townships. One course reinforced concrete. Suburban Const. Co., Ardmore, Pa. \$21,925 (only bidder).

Berks Co., R-285, Spur, Greenwich Township. One course reinforced concrete, (6) bridges. E. Riley Mixner and Varsaggi Bros., Ocean City, N. J., \$414,043.

Monroe and Northampton Cos., R-166, Sec. 2 and 5, Delaware Water Gap Borough, Upper Mt. Bethel Township. One course reinforced concrete, (2) bridges. Continental Const. Co., Baltimore, Md. \$463,033.

Lycoming Co., R-303, Moreland and Muncy

Creek Townships. One course reinforced concrete, (3) bridges. Samuel Domenics, Altoona, Pa., \$262,901.

Clarion Co., R-218, Sec. 3, Salem and Bea-

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ver Townships, Edenburg Borough. One course reinforced concrete, (2) bridges. State Const. Co., New Kensington, Pa. \$245,948.

York Co., A-6519, Hopewell Township. Bituminous surface treated macadam surface course. W. Grant Raub, Red Lion, Pa. \$55,034.

Potter Co., R-104, Sec. 2, Homer and Keating and drainage, (1) bridge. T. C. Bayly, East Aurora, N. Y. \$69,929.

Dauphin Co., A-6600, Jackson Township. Bituminous surface treated macadam surface course, grading and drainage. No bids received.

Road Work, Pennsylvania. Low bidders. (November 21st letting.) Owners, Pennsylvania Department of Highways, J. L. Stuart, Harrisburg, Pa.

Clarion County, R-311, Sec. 1, Perry Township. Grading and drainage, (1) bridge. R. C. McQuiston, Mercer, Pa., \$46,102.

Clarion County, R-66, Porter and Redbank Townships. One course reinforced concrete, grading and drainage, (1) bridge. H. N. McNutt, Clarion, Pa., \$241,141.

Jefferson County, R-357, Sec. 1, Perry and Oliver Townships. One course reinforced concrete. A. R. Cooper, Idaman, Pa., \$187,120.

Bucks County, R-386, Sec. 1, West Rockhill Township, 11,771 feet. Grading and drainage. Glenside Construction Co., Reading, Pa., \$22,994.

Bucks County, R-155, Warwick Township. Bridge over Little Neshaminy Creek. Excavation, borrow, bituminous surface treated macadam surface course, concrete, plain steel bars, fabricated structural steel. Richard L. Evans, Ambler, Pa., \$29,321.

Chester County, R-142, Valley Township, City of Coatesville. One course reinforced concrete. Suburban Construction Co., Ardmore, Pa., \$61,694.

Erie County, R-85, Conneaut Township. Bridge over Pennsylvania Railroad. Excavation, borrow, concrete, plain steel bars. Progressive Engineering Corporation, Buffalo, N. Y., \$20,417.

Fayette County, R-429, Sec. 1, Nicholson and Georges Townships, Smithfield Borough. One course reinforced concrete. Double span reinforced concrete bridge. A. G. Rothery, Elizabeth, Pa., \$358,291.

Jefferson County, R-237, Sec. 2, Rose and Clover Townships, Brookville Borough. One course reinforced concrete, (2) bridges. Hagedorn Construction Co., Oil City, Pa., \$264,435.

Potter County, R-318, Sec. 1, Genesee Township. Grading and drainage. Deno Engineering & Construction Corporation, North Tonawanda, N. Y., \$53,609.

Schuylkill County, R-185, Rush and Kline Townships. One course reinforced concrete. Graham Construction Co., Rothville, Pa., \$55,192.

Tioga County, R-106, Delmar Township, Wellsboro Borough. One course reinforced concrete. Lane Construction Co., Meriden, Conn., \$243,835.

Westmoreland County, R-480, Sec. 2, Derry Township. One course reinforced concrete, (1) bridge. Edward H. Cannon, Pittsburgh, Pa., \$189,312.

York County, A-6518, Dover Township. Bituminous surface treated macadam surface course, (1) bridge. York Engineering & Construction Co., York, Pa., \$60,245.

Perry County, R-191, Sec. A, Tuscarora and Saville Townships. Grading and drainage, (2) bridges. J. C. Shawfield Co., Harrisburg, Pa., \$60,757.

Pennsylvania Contracts Awarded

Restaurant (alts. and add.), Doylestown Pike, Montgomery County, Pa. Contract awarded Fesmire Bros., Huntigdon Valley, Pa. Architect, Llewellyn Price, 1120 Locust St., Philadelphia. General interior and exterior alterations.

Knitting Mills (alts.), Beth Ayres, Pa. Contract awarded W. P. Cameron Engineering

Co., 4830 N. Mascher st., Philadelphia. Architect, private plans. Owner, Beth Ayres Knitting Mills, Beth Ayres, Pa. General interior alterations.

Telephone Building, 510 Welsh street, Chester, Pa. Contract awarded John N. Gill Construction Co., 1500 Chestnut street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Nineteenth and Arch streets, Philadelphia. 4 stories and basement, brick, limestone, steel, 72x91 feet, steam heat, electric light, metal lath, rolled steel sash, bond, ornamental iron work, slag roof, cement floors, plumbing, demolition.

High School, Ringtown, Schuylkill County, Pa. Contract awarded Burton C. Cooper, Port Carbon, Pa., \$51,479. Heating, American Heating & Ventilating Co., 1505 Race street, Philadelphia. Plumbing, Neetzow & O'Hearn, Shenandoah, Pa. Electric, B. T. Brown, Newtown, Pa. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owners, Union Township School Board, Washburn Snoich, Ringtown, Pa. Fireproof, 2 stories and basement, 135x76 feet, 110x33 feet, slate roof, maple floors, hollow tile, safety treads, roof ventilators, tile work, metal lath.

Grade School (add.), Royersford, Pa., \$27,987. Contract awarded Roy Randall, 402 West avenue, Jenkintown, Pa. Heating and plumbing, Bullock & Sons, Royersford, Pa. Electric, Gamble & Urner, Royersford, Pa. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford School District, Mrs. M. Latshaw, Secretary, Royersford, Pa. Brick, reinforced concrete, steel, 1 story and basement, 149x70 feet, built-up roof, cement and maple floors, hollow tile, caulking, caststone, ornamental iron, kalamein doors, steel sash, metal lath, grading, excavation, painting, glazing, plastering, roof ventilators, metal toilet partitions, hardware, composition floors.

Service Station and Warehouse, Fifth and Oley streets, Reading, Pa. Contract awarded Edward Reider, 1504 Alsace road, Reading, Pa. Architects, Muhlenberg Brothers, 113A South Fourth street, Reading, Pa. Owners, Firestone Tire & Rubber Co., Akron, Ohio. Brick, 2 stories, 68x70 feet, store front, electric light, wood partitions, heating, plumbing, elevators, concrete floors.

Store Building, Bryn Mawr, Pa. Contract awarded Townsend, Schroeder & Wood, 1700 Sansom street, Philadelphia. Architect, private plans. Owners, T. W. Hammonds & Bro., Bryn Mawr, Pa. Brick, steel, 2 stories and basement, 43x131 feet, steam heat, electric light, metal lath, rolled steel sash, built-up roof, oak and yellow pine floors, elevators, plumbing, ornamental iron work, excavation.

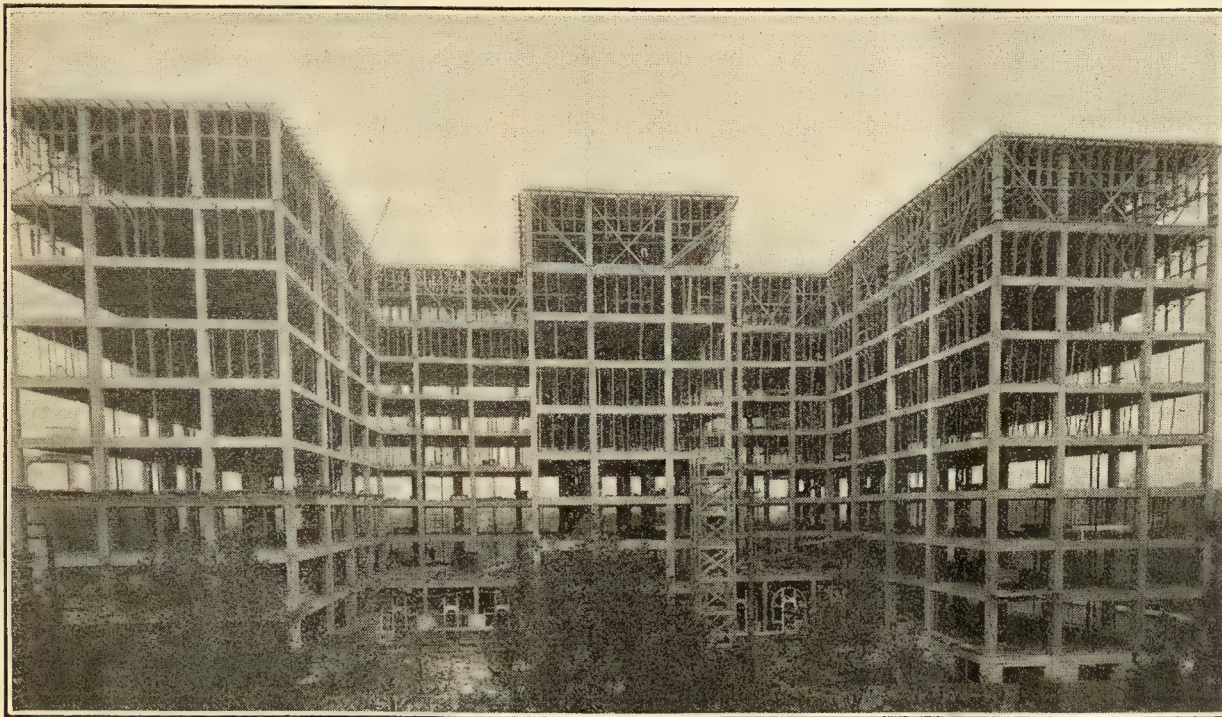
Factory Building, Norristown, Pa. Contract awarded E. C. Durell, 1713 North Twenty-fourth street, Philadelphia. Architect, private plans. Owners, Herbert Hosiery Mill Co., Norristown, Pa. Hollow tile, 108x52 feet, steel sash, steel trusses, slag roof, galvanized iron skylights.

Factory (add. and alts.), Bristol, Pa. Contract awarded Baird & Mallette, Westville, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Trenton Emblem Co., 120 Hamilton street, Trenton, N. J. Brick, steel, 1 story, 26x40 feet, slag roof, cement floors.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Carbon County, R-163, Sec. 3, Lower Townensing and Franklin Townships, Parryville Borough. One course reinforced concrete, grading and drainage, (4) bridges. Enterprise Construction Co., Bankers' Trust Building, Philadelphia, \$158,629.09.

Clearfield and Center Counties, R-219, Cooper and Snowshoe Townships. 2-span pony



Pictured above is the \$2,500,000 Reinforced Concrete Unit of the \$10,000,000 project of The Walnut Plaza Co., at 63rd and Walnut Streets, Philadelphia. It was erected in 69 working days by Frederick Massiah and is one of Philadelphia's largest beam and girder jobs.

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truss bridge, grading. David Bailey, Morrisdale, Pa., \$70,227.57.

Greene County, A-242, Washington Township. Bituminous penetration surface course on broken stone base course. National Bituminous Construction Co., West Alexander, Pa., \$40,422.45.

Union County, R-175-24, Buffalo Union, East Buffalo and Kelly Townships, Lewisburg Borough. One course reinforced concrete. A. A. White, Inc., Lebanon, Pa., \$340,498.67.

New Jersey Construction News

Water Works, Audubon, N. J. Work contemplated. Owner, Borough of Audubon, care of Henry J. Savage, Audubon, N. J.

Hotel Apollo (alts.), 1509 Boardwalk, Atlantic City, N. J. Plans in progress. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, J. Schwartz, on premises. New fronts (4), vitrolite and copper work, tile, plumbing, iron work.

School (add.), West Sharon, N. J. Plans in progress. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Denford Township School Board, Herbert I. Clement, Clerk, R. F. D., Westville, N. J. Brick, 1 story and basement, 80x35 feet, slate roof, pine floors (heating, plumbing and electric separate).

Residence (alts. and add.), Deal, N. J. Plans in progress. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owner, David Holzner, care of architect. Frame, 2½ stories, irregular size, slate roof, hardwood floors, vapor heat, electric light.

Residence, Ventnor, N. J. Owner will take bids. Architect, William S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, Charles S. Pryor, Guarantee Trust Building, Atlantic City, N. J. Frame, 2 stories, 18x50 feet, asphalt shingle roof, oak floors, tile work, hot water heat, electric light.

Show Room (alts. and add.), Tuckerton, N. J. Architect will be ready for bids in about one week. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, name withheld. Steel, stucco, second story add., 40x75 feet, slag roof, wood roof deck, pine floors, metal weather strip, iron work, plate glass, heating extension, electric light.

Store Building (3 stores), Haddonfield, N. J. Owner will build. Architect, private plans. Owner, E. Clifford Durell, 1713 North Twenty-fourth street, Philadelphia. Brick, cast stone, 1 story and basement, 70x52 feet, hot water heat, electric light, slag roof, yellow pine floors, plumbing.

Building, Atlantic City, N. J. Architect taking bids due December 2nd. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia.

Hotel, Mississippi avenue and Boardwalk, Atlantic City, N. J. Plans nearing completion. Architect will be ready for sub-bids about December 20th. Architect, Louis I. Brooks, 65 Madison avenue, New York City. Owner, care of architect. Brick, steel, fireproof, 20 stories, 65x227 feet.

Alterations, 26 Scott street, Riverside, N. J. Architect taking bids due December 3rd. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owner, Christian Dick, 26 Scott street, Riverside, N. J. Brick and steel, 2 stories, 100x28 feet.

Addition, 28 Scott street, Riverside, N. J. Architect taking bids due December 6th. Architect, H. O. Ziegler, Drexel Building, Philadelphia.

Owner, Christian Dick, 26 Scott street, Riverside, N. J. Brick, steel, 2 stories, 100x28 feet.

Superintendent's Cottage and Garage, New Jersey State Reformatory, Rahway, N. J. Owners will build. (Electrical work included in general.) Plumbing awarded Buist & Sons, New Brunswick, N. J., \$2,960. Heating awarded Buist & Sons, New Brunswick, N. J., \$3,050. Architects, Division of Architecture and Construction, Charles J. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, steel, 2 stories and basement, 43x31 feet, wing 26x12 feet, garage 19x22 feet, slate roof, oak and pine floors, cement floors, caulking, waterproofing, dampproofing, ornamental iron, bond, tile, marble, metal lath, linoleum, metal weather strip, steel casement sash.

Elimination Seventh Street, Camden, N. J., \$900,000. Owners will take bids early in spring. Owners, City of Camden and Pennsylvania Railroad, Broad Street Station, Philadelphia.

Water Mains, \$35,000. Runnemede, N. J. Work contemplated. Architect, not selected. Owners, Borough of Runnemede, George Scellera, Chairman, Citizens' Water Committee, Runnemede, N. J.

Bridges (5). Route 39, Sec. 8, Indian Mills to Great Swamp, Burlington and Atlantic Counties, N. J. Low bidder: Fabio Matazzo, 1287 Kaighn avenue, Camden, N. J., \$59,617.75. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J. Foundation piles, foundation excavation, concrete, structural steel, reinforcing steel.

New Jersey Contracts Awarded

Office (alts.), Camden, N. J. Contract awarded F. C. Slacum, 33 Park Avenue, Westmont, N. J. Architect, A. B. Gill, 328 Market Street, Camden, N. J. Owner, Frank Propert, care of architect. General alterations, rubber stone floors, electric work, plumbing.

Oven Building (add.), Camden, N. J. Contract awarded Townsend Schroeder and Wood, 1700 Sansom Street, Philadelphia, Pa. Architect, private plans. Owner, Armstrong Cork Co., Jefferson Street, Camden, N. J. Brick, concrete and steel, 4 stories and basement, irregular, slag roof, cement floors, ornamental iron work.

Hotel Alexander, \$600,000. Beach Front, between Taylor and Andrews avenue, Wildwood, N. J. Contract awarded A. H. Winters, 1524 Chestnut street, Philadelphia, ready for sub-bids, due as soon as possible. Architect, private plans. Owner, Alek McMurray, 300 Atlantic avenue, Wildwood, N. J. Brick and steel, 5 stories and basement, 110 rooms, steam heat, metal lath, tile, slag roof, cement and oak floors.

Residence, Ocean City, N. J. Contract awarded H. C. Pontiere, Title & Trust Building, Ocean City, N. J. Architect, Walter Thomas Mayo, Temple Building, Camden, N. J. Owner, George A. Moore, Collingswood, N. J. Frame, 2½ stories, 50x45 feet, asbestos shingle roof, hardwood floors, electric light, tile work.

Bakery (alts. and add.), \$20,000. Northeast Corner Ninth and Elm streets, Camden, N. J. Contract awarded J. E. Fawley, Inc., 2121

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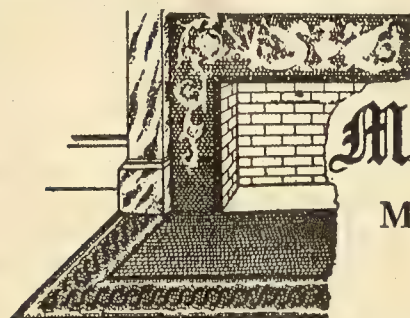
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Walnut street, Philadelphia. Architect, private plans. Owners, Parkway Baking Co., 1226 Ridge avenue, Philadelphia. Brick, 2 stories, 55x72 feet, slag roof, general alterations.

Service Station, \$3,000. Haddon avenue and Line street, Camden, N. J. Contract awarded A. R. Raff Co., 1635 Thompson street, Philadelphia. Engineers, Tide Water Oil Sales Co., 11 Broadway, New York. Owners, Station Realty Co., New York City. Block, stucco, 1 story, 15x24 feet, asbestos shingle roof.

Residence, \$5,000. 1208 North Thirty-fourth street, Camden, N. J. Contract awarded Henry W. Brightly, 1216 North Thirty-fourth street, Camden, N. J. Architect, private plans. Owner, Henry W. Brightly, Jr., Camden, N. J. Frame, 1½ stories, 26x52 feet, asphalt shingle roof, hot water heat.

Residence, \$3,000. 1175 North Thirty-fifth street, Camden, N. J. Contract awarded Henry W. Brightly, 1216 North Thirty-fourth street, Camden, N. J. Architect, private plans. Owner, Mrs. Harriet Lawler, Camden, N. J. Frame, 1½ stories, 26x52 feet, asphalt shingle roof, hot water heat.

Elevator Enclosure, \$2,800. Northeast Corner Ninth and State streets, Camden, N. J. Contract awarded W. F. Newbery Co., Otis Building, Philadelphia. Owners, Highland Worsted Mills, Ninth and State streets, Camden, N. J. Brick, 4 stories, 8 feet 8 inches x 10 feet.

Building (alts.), \$2,150. 3623 Westfield avenue, Camden, N. J. Contract awarded William G. Mummaw, 3905 Federal street, Camden, N. J. Owner, Leon E. Todd, 2623 Westfield avenue, Camden, N. J. New store front and general alterations.

Alterations and Addition, 14 Scott street, Riverside, N. J. Contract awarded Alex Bright, Riverside, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owner, William Erlick, Riverside, N. J.

Residence, \$2,500. Head of Eighth street, Camden, N. J. Contract awarded John C. Piot, 926 North Twenty-eighth street, Camden, N. J. Architect, private plans. Owner, N. P. Rasmussen, 522 North Fifth street, Philadelphia. Brick, 1 story, 32x33 feet, slag roof, hot water heat, electric work.

Miscellaneous Construction News

Post Offices (various locations). Work contemplated. Architect, James A. Wetmore, Acting Supervising Architect, Washington, D. C. Owners, United States Government, Post Office Department, Washington, D. C. Olyphant, Pa., \$7,000; Sayre, Pa., \$100,000; Tamaqua, Pa., \$112,000; Lewistown, Pa., \$50,000; vicinity Thirty-second and Market streets, Philadelphia, \$8,000,000; Allentown, Pa., \$375,000; Altoona, Pa., \$575,000; Chester, Pa., \$405,000; Lancaster, Pa., \$50,000; Norristown, Pa., \$190,000; Scranton, Pa., \$1,475,000; Wilkes-Barre, Pa., \$395,000; Bloomsburg, Pa., \$100,000; Bryn Mawr, Pa., \$100,000; Coatesville, Pa., \$110,000; Lansdale, Pa., \$100,000; Rochester, \$80,000; Stroudsburg, Pa., \$100,000.

Officers' Quarters, \$12,000. Reedy Island, Del. Contemplated. Architect, not selected. Owners, United States Government, Washington, D. C.

Court House (add.), Bel Air, Md. Preliminary plans in progress. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, City of Bel Air, Hartford County, Md. Brick, concrete, 2 stories, 106x22 feet, composition roof, electric work.

Department Store (alts. and add.), Wilmington, Del. Plans in progress. Architect, L. S. Kaplan, 33 West State street, Trenton, N. J. Owners, Kennard-Pyle Co., 617 Market street, Wilmington, Del. Brick, steel, 25x100 feet, slag roof, maple floors, hollow tile, roof ventilators, dampproofing, ornamental iron, iron stairs, plate glass, copper work, steel sash and skylights, tile work, metal lath, electric light.

Library, West Virginia University, Morgantown, W. Va. Owners taking bids due December 2nd (note date). Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, School Board of Control, James S. Lakin, President, Charlestown, W. Va. Note extension of time.

Observation Clinic, Continuation Treatment Building and Nurses' Home, Farnhurst, Del. Owners will be ready for bids first of next week. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Delaware State Hospital, Farnhurst, Del. Fireproof, 2 stories and basement, 2 stories and 2 stories, 160x36 feet, (2) 36x60 feet, Johns-Manville roof, concrete and linoleum floors, hollow tile, elevators, safety treads, roof ventilators, metal window guards, metal weather strip, waterproofing and dampproofing, cut stone, incinerators, ornamental iron, iron stairs, bond, fire doors, steel sash and skylights, tile, marble, metal lath (heating, plumbing and electric separate).

Residence, Wawasett Park, Wilmington, Del. Low bidder: J. A. Bader & Co., Lackey Building, Wilmington, Del. Architects, Pope & Manning, Equitable Building, Wilmington, Del. Owners, Charles C. Keody, DuPont Building, Wilmington, Del. Cinder block, stucco, 2 stories, 40x60 feet, tile roof, hardwood floors, hot water heat, oil burner, electric light, tile work, casement windows.

School Building, Clayton, Kent County, Del. Low bidders: H. Clay Phillips & Son, Middletown, Del., \$57,775; John M. Yardley, 1700 Walnut street, Philadelphia, \$63,939; plumbing, heating and ventilating, T. T. Weldon & Sons, 916 Orange street, Wilmington, Del., \$11,200; electric, Electric Service Co., 706 West Fourth street, Wilmington, Del., \$680, alternate \$537. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Board of Education Building, Dover, Del. Brick, concrete, 1 story, 138x118 feet, timber and slate roof, steel, iron, carpentry, painting.

School (add.), Smyrna, Kent County, Del. Low bidders: J. Roland Dashiell, Salisbury, Md., \$50,000; H. John Homan Co., Eighth and Cherry streets, Philadelphia, \$50,977. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, State

School Building Commission, Dr. H. V. Holloway, Superintendent, Board of Education Building, Dover, Del. Brick, steel, 2 stories and basement, 103x38 feet, slag roof, maple and cement floors, hollow tile, safety treads, roof ventilators, dampproofing, architectural terra cotta, bluestone, ornamental iron, iron stairs, metal lath, tile, marble, excavation, reinforced concrete.

High School (add.), Dover, Del. Low bidders: George H. Thomas, Dover, Del., \$21,045.13; J. A. Bader & Co., Lackey Building, Wilmington, Del., \$22,148. Architects, Frank R. Watson and Edkins & Thompson, 1520 Locust street, Philadelphia. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Board of Education Building, Dover, Del. Brick, cast stone, steel, 2 stories and basement, 64x35 feet (6 rooms), Barrett roof, maple and cement floors, steam heat, electric light, metal lath, steel sash, ornamental iron, reinforced concrete, excavation, metal partitions, carpentry, mill work, hardware, painting, glazing, plumbing.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 23, 1929.—Sealed Bids will be opened in this office at 3 p. m., January 6, 1930, for the demolition of old and the construction (except elevators) of new six story, basement and sub-basement stone faced, fireproof, U. S. post office building, approximately 233 feet by 278 feet ground area, at Baltimore, Md. Drawing and specifications, not exceeding six sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit is made of \$50. for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 25, 1929.—Sealed Bids will be opened in this office at 3 p. m., December 26, 1929, for remodeling and enlarging the U. S. post office, Corning, N. Y. Drawings and specifications may be obtained from the custodian of the building, or at this office in the discretion of the supervising architect. JAS. A. WETMORE, Acting Supervising Architect.

LIABILITY OF AN EMPLOYER UNDER THE WORKMEN'S COMPENSATION LAW

By W. H. HORNER, *Director*

Bureau of Workmen's Compensation

The principle of workmen's compensation, which means that a person who is injured while at work shall receive payments during the time such person is unable to work, or that in a fatal case the widow and children, under sixteen years of age, or other dependents, shall receive payments during a certain period, and that the employer is required to furnish reasonable medical, surgical, and hospital services, medicines, and supplies for a given period; and pay a certain sum toward defraying funeral expenses, has been adopted by practically all the states in the Union. The only states that do not have compensation laws are South



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The Workmen's Compensation Law in the Commonwealth of Pennsylvania was passed by the General Assembly in 1915 and went into effect on January 1, 1916. From that time to June 1, 1929, reports covering accidents to 2,396,917 persons who were injured in the course of their employment were received by the Bureau of Workmen's Compensation. Of this number 31,762 persons were either killed outright or died as the result of their injuries. Under the provisions of our compensation law during the same period, payments were made or authorized in 961,135 cases. The payments made or authorized in these cases amounted to \$157,399,375. These figures do not include the amount which was paid for medical surgical, and hospital services, medicines, and supplies, which would probably amount to at least one-third of the compensation cost. In addition to the compensation and medical costs, the wage loss due to these accidents amounted to millions of dollars. This brief statement will give a faint idea of the immense cost of accidents happening in the industries of our state.

The only classes of employees who are not entitled to the benefits of the compensation law are agricultural workers (farmers), domestic servants, and persons who are engaged to do certain work which is not in line with the regular business of the employer and which is known as casual employment. With these exceptions, every employer of labor in the Commonwealth of Pennsylvania is bound by the provisions of the Workmen's Compensation Law regardless of whether one person or one hundred persons are employed. In many of the states employers of three persons or less are not bound by the provisions of their compensation laws.

In this state when a person is injured in the course of employment the employer is required to pay compensation at the rate of sixty-five per cent. of the average weekly wage, but an injured person cannot receive more than fifteen dollars per week nor less than seven dollars per week. However, if the average weekly wage is less than seven dollars per week, the compensation rate shall be the same as the wage rate. Compensation payments do not begin until after the first seven days of disability. In addition to compensation payments the employer is required to furnish reasonable medical, surgical, and hospital services, medicines, and supplies covering the first thirty days after disability begins not to exceed the sum of \$100.00 for medical and surgical services, medicines and supplies. The law does not fix a limit to the amount which is to be paid for hospital services during the first thirty days of disability.

It may not be generally known that all

members of volunteer fire companies of the various cities, boroughs, incorporate towns, and townships shall be entitled to receive compensation in case of injuries received while actually engaged as firemen or while going to or returning from any fire, which the fire company of which they are members, shall have attended. The law makes it legal for any city, borough, or township of the Commonwealth to expend out of public funds of such municipality such amount as may be necessary to secure compensation insurance covering volunteer firemen. Since volunteer firemen are not paid for their services, their compensation rate, in case of accident, is based on the wage received in their regular occupation.

The Workmen's Compensation Law may be either accepted or rejected by an employer or an employee. In case either desires to reject the Act a specific agreement in writing between the employer and employee must be entered into at the time of hiring, and a copy of this agreement, properly certified, must be filed with the Bureau of Workmen's Compensation. When an employer rejects the Workmen's Compensation Law, he becomes liable for damages under common law and has practically no defense, if the accident can be proved. If an employer does not reject the Act he is bound by its provisions and has the privilege of insuring his liability for the payment of compensation in the State Workmen's Insurance Fund, in a stock, or mutual insurance company, or may apply to the Bureau of Workmen's Compensation for the privilege of carrying his own insurance. This privilege is only granted to employers who can satisfy the Bureau that they are strong enough financially to meet their obligations under the compensation law. Any employer who fails to carry compensation insurance or to secure from the Bureau the privilege of carrying his own insurance shall be guilty of a misdemeanor, and upon conviction

thereof for every such offense shall be sentenced to pay a fine of not less than one hundred dollars nor more than five hundred dollars and costs of prosecution, or imprisonment for a period of not more than six months or both at the discretion of the court. Every day's violation shall constitute a separate offense. The Department of Labor and Industry has decided that this provision of the law shall be vigorously enforced and that violators shall be prosecuted. In a number of cases in the City of Pittsburgh prosecutions have been brought and the violators have been held under bail for court. Similar prosecutions will be brought in other sections of the state.

It may be of interest to know that the Bureau of Workmen's Compensation has a record of every employer in the Commonwealth of Pennsylvania who is carrying compensation insurance or who has been granted the privilege of carrying his own insurance. With this information the Bureau can readily determine whether an employer is complying with the insurance provision of the Workmen's Compensation Law.

In this connection it is very important for employers to remember that minors between the ages of fourteen and sixteen years cannot be legally employed unless the minor has secured an employment certificate from the proper school authorities. Minors who are illegally employed are not entitled to compensation payments in case of accident, and the employer is liable to prosecution for failure to comply with the provisions of the labor laws. The employer may also be prosecuted for damages in the courts by the parents or guardians of the minors, and there have been a number of cases where heavy damages have been awarded against the employer.

The class of employers who usually are not complying with the Workmen's

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Compensation Law are persons who employ only a few people. There have been numerous cases where compensation payments were ordered by a referee or by the Workmen's Compensation Board, but compensation could not be collected because the employer failed to carry compensation insurance and was not himself financially responsible. It is the intention of the Department of Labor and Industry to reduce this class of employers to the minimum.

The inspectors connected with the Bureau of Inspection and the adjusters for the Bureau of Workmen's Compensation have been instructed to be on the lookout for employers who are not carrying compensation insurance and report such violators promptly to the Bureau of Workmen's Compensation.

If you are an employer of labor and are not carrying workmen's compensation insurance, you should secure a policy immediately, covering your liability under the law. Play safe and secure without delay a compensation insurance policy covering your employes.

Compensation insurance rates can be secured from the State Workmen's Insurance Fund or any other insurance company authorized to write compensation insurance in this state by the State Insurance Department.

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BUILDING ACTIVITY INCREASES AS RESULT OF LOWER MONEY RATES

Already indications of a gradual increase in building activity as a result of the ease in money rates induced by the deflation of the stock market are being noted by members of the National Terra Cotta Society, according to William F. Lockhardt, Secretary-Director. The Society is represented by manufacturers in every part of the country, and is in a position to feel the pulsations of the national building market as it is affected by changing conditions.

"The offices of many of our members," said Mr. Lockhardt, "are now working at night on projects that are now alive after a period of lessened activity. Architects, too, we find, are busy getting out numerous plans for structural operations which have lain on the shelves because of unfavorable conditions.

"It has been amply demonstrated," he continued, "that the diversion of an abnormal portion of the nation's money from real estate into the stock market, with a consequent rise in interest rates, acts as a definite curb on structural operations. With the decline in security quotations, however, the cost of borrowing money has fallen rapidly and caused the prompt consideration of numerous projects that had been held in abeyance because of the financial stringency.

"It now seems probable, too, that money conditions will remain 'easy' for some time to come and that the building situation will likewise be definitely improved. Much of the money that was enticed from the real estate field by the glittering possibilities of common stocks, learned a graphic lesson in the recent debacle that will not soon be forgotten. With builders and realty able to obtain financing at a reasonable price, we can see an early and prolonged era of renewed structural activity."

BUILDING SPECIFICATIONS OF THE NEW YORK BUILDING CONGRESS

The preparation of standard specifications for the general construction trades has been under way by the New York Building Congress since 1925 and has culminated in the publication of 33 specifications approved by architects, engineers, trade associations, and other experts representing all of the elements of the construction industry.

The specifications describe approved methods of construction in accordance with present practices and conditions. They appear as the "New York Building Congress Standard Specifications, issue of May, 1929." The foreword by William Arthur Payne, chairman of the standards committee of the congress, states that they "are for the metropolitan district and have been written by an architect, and were carefully studied and indorsed by a committee of the New York chapter of the American Institute of Architects, and recommended by the chapter for use by the architectural profession. They have the written approval of the trade association where one exists in the industry, or by recognized experts, where there is no trade association. With this authority the specifications are issued as printed documents for the contract. By their general use the cost and uncertainties of estimating will be greatly reduced, and the causes of dispute lessened."

They have been given trials on representative building operations where their "clear, direct, and understandable wording" was commended. Although written expressly for the metropolitan district, they may find extended use, possibly with slight modifications, in all other localities in the United States.

The printed specifications are sold as separates numbered from 1 to 33 at very slight cost, and also as a bound volume, by the New York Building Congress, 101 Park Avenue, New York, N. Y.

The suggestion for the use of the standard specifications given by the building congress states:

"A standard specification to be of value must be designed so as to be applicable to every type of building. Obviously the extent of the work in any trade division will vary with the individual building. Requirements regarding qualities of materials and workmanship may, within certain limits, be standardized. A very logical division exists between extent of work, or work included, and the quality of materials and workmanship.

"The New York Building Congress suggests that specifications be divided into two parts, A and B—part A, specifying the extent of the work, to be written by the architect for each building; part B, describing quality of materials and

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workmanship, standardized as herewith presented."

These suggestions are followed by a brief outline form for part A enumerating the various items to be covered by the architect. They further state that when the standard specifications are used in this manner they are to be found with part A of each division and issued as a complete document. They further suggest that where architects prefer to rewrite each specification they can still retain many of the advantages of a standard specification by copying the clause verbatim and so stating.

The 33 types of materials or work are covered by part B, all or any number of which may be used as required by the particular job. Each of these separate specifications includes paragraphs on "general conditions," "arbitration clause," and "scope." The succeeding paragraphs in each case depend upon the particular trade covered. For example, those covering "excavating" are "examination of site," "unit prices," "examination of drawings," and "equipment, etc." Specifications covering such items as "mass and reinforced concrete" or "structural steel" contain, of course, many more items. At a meeting held on May 21, 1929, in New York, these specifications were presented to a group of 50 prominent engineers, many of whom signified their intention of immediately making use of them.

A list of specifications thus far available follows: Demolition; Excavating; Waterproofing by Bituminous Membrane; Waterproofing by Plastic Coatings; Masonry and Concrete Materials; Masonry; Mass and Reinforced Concrete; Concrete Arches and Fireproofing; Structural Steel; Cement Finish; Furnishing Granite, Cut Stone, Marble, or Manufactured Stone; Furnishing Terra Cotta; Setting Terra Cotta; Vault Lights; Mail Chutes; Caulking; Metal Window Frames and Sash; Roofing and Sheet Metal Work; Carpentry; Architectural Iron; Architectural Bronze; Metal Furring and Lathing; Plastering; Interior Marble, Slate, and Structural Glass; Terrazzo and Mosaic; Tile (Ceramic); Hollow Metal Work; Metal Covered Wood; Glass and Glazing; Painting; Window and Door Screens; Weather Strips.

—*Architecture and Building.*

The importance of color in the home and office was stressed by the speakers at the Bankers' Industrial Exposition, the permanent exhibit of everything of interest to bankers and industrialists held November 6th, which was set aside on the Exposition's program as "Decorators' Day."

Among the speakers were G. H. Binder, Vice-President and General Manager of the Zenitherm Company, Frederick W. Bergmueller, President of the Ferro Studios, Inc., Miss Mary Ann Abel, color consultant of the Crane Co., and Charles Laurino of the Aeolian Company.

"Adam, in a strange environment, soon found that size, shape and particularly color made identity easier," Mr. Binder said. "There is no record of the fact but certain it is that, at the end of the first day, he was conscious of something strange and fearful when dark night obliterated the beauties of the day. Surely, he sought a cave or tree top when danger threatened and when security in this shelter, which we may call the first home, he soon set about making it comfortable. I think this was the beginning of interior decoration.

"The appeal of color is of early record. Noah, whether he knew it or not, must have had a good eye for color. He had to check up on all his passengers and each had to have 'atmosphere' to be contented in his 40-day apartment. At the end of the voyage, the record tells of the rainbow and we have been color conscious ever since, only more so recently.

"Peace, with its attendant prosperity and leisure, has always stimulated the expression of man's ideals in the finer arts. Each civilization has left its imprint in the fabrication of buildings or materials expressive of their feelings, inspirations and creative ingenuity.

"Nature supplied raw materials and man fashioned them according to his needs.

"We find ourselves today in an age where values are thoroughly appreciated, but urgency demands permanence and beauty with minimum cost. We no longer can be accused as a people, of taking our materialism straight. Our modern skyscrapers and automobiles—and even some factories—prove we are truly conscious of beauty as well as utility."

Color in bathrooms and lavatories is

now invading places of business, according to Miss Abel of the Crane Company. "Beauty and convenience in inner rooms can go hand in hand now, since the architect and builder have at their command modern designs for rest-room equipment to please the most discriminating," Miss Abel said. "Women have brought this color sense and its influence into business. The number of women employees, women in business on their own account and women conducting the business affairs for their families has increased from 10% to 40% in the past fifteen years. Builders and architects should consider this increasing number of women in business and should see to it that adequate facility for their comfort is one of the absolute requirements in office building construction.

"The banking business especially has felt the influence of the growing number of women patrons and is not slow to see the necessity of providing them with comfort and beauty,—things which a woman senses and keenly appreciates. To give an impression of homelikeness and harmony in such rooms is the modern equivalent for old-fashioned hospitality. Not the least among other reasons for doing this is that of owner-pride and a fitness of things. The physical surroundings in which one does business produce a lasting impression."

The Decorative Uses of Wrought Iron were explained by Mr. Bergmueller, President of the Ferro Studios, Inc. All of us have in our homes one or more articles made of wrought iron in which we take particular pride, whether it be a foot scraper or an elaborately wrought stair railing, according to Mr. Bergmueller. Wrought iron is particularly adapted to bank interiors, Mr. Bergmueller concluded, for it is symbolic of strength, dignity and honesty.

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BEAUTIFUL DOORS ADD TO VALUE

Beautiful doors, doors that are structurally good, add a great deal to the value of a residence. They may be in large measure a deciding factor determining whether a home offers charm or intangible disappointment. Doors are the gateways to your home and its rooms; they should be of good materials and well made. Good doors add greatly to the comfort of living in a house.

A stock door produced by a manufacturer who has been making doors for three generations has as one of its distinctive features a recessed panel together with a stock molding in a stock thickness of doors.

It was the first stock door to have this feature. It combines the simplicity of the single panel with the richness of the moulded door. It has a character that lends itself to the many architectural styles due to its artistic lines and proportions.

This door is strongly made and structurally correct. It is made in both hard and soft woods. Patented standards of precision in wood manufacture, combined with quantity production have made this door possible at a reasonable price.

We are likely to think of a door as merely a door, simply a necessity, and as such dismiss it from our thoughts, but this is a mistake. Doors are one of the few moving parts of the house and one of the most conspicuous pieces of the interior equipment. They must function properly and fit snugly; nothing is more irritating than a door that refuses to open and close easily, or one which has poor lock action.

The close grained woods of which the doors referred to are made suits them for paint, enamel or lacquer. They accept any color treatment that is desired and retain their beauty. The wood will not open up under the influence of heat and cause the finish to crack.

Recently a new line of doors with

white pine stiles and rails and figured white maple panels was announced. Large production of veneers and the economies of mass production, it is claimed, bring a product that would ordinarily be too costly for the small builder within his reach. Special care is taken to select panels for their beauty of figure.

Mirror doors offer a pleasant means by which the apparent size of a room may be increased and are an accessory of genuine usefulness in the bedroom or bathroom. They fit in particularly well with the one-panel type of door which is frequently uniformly used throughout the house in location which do not require the mirror door.

If two adjacent closets are equipped with mirror doors and the intervening wall space filled with a mirror, a triple arrangement will be secured in which any series of reflections desired may be obtained. To secure this arrangement both doors must be hinged so that the swing is toward the mirror. Such an arrangement is particularly convenient in bedroom or dressing room.

—*East Bay Builder.*

SCIENTIFIC RESEARCH ON BRICKLAYING AT MELLON INSTITUTE

An interesting example of collaboration between scientist and artisan is found in the broad scientific study of bricklaying recently inaugurated by Mellon Institute of Industrial Research and the Eastern Face Brick Manufacturers' Association. The experiments are being carried out by Dr. F. O. Anderegg, Senior Industrial Fellow of the Institute's Multiple Industrial Fellowship on Portland Cement, and his assistants; architects, building contractors, and masons are aiding the work by contributing opinions and advice based upon experience.

So many varying factors are involved in the construction of a brick wall that it has been necessary to limit the experimental study to combinations of variables representing the probable range of prac-

tical application. Hundreds of thousands of experiments would be required if all possible combinations were to be studied. For this reason the research program has been under discussion for a considerable period of time, and the recent investigation was begun only when a satisfactory plan had been elaborated. Up to the present time some 300 experimental walls or panels have been erected on the grounds of Mellon Institute Building No. 2; a supplementary series will be constructed during the winter.

In brief, the investigation will cover certain aspects of all the factors involved in bricklaying. The most obvious points of attack are studies of the characteristics of different kinds of brick and mortar. Problems of special appeal to the practical man are those concerned with different methods of backing and with differences in workmanship. The design of walls and their relative elasticity are subjects which will be of considerable interest to contractors and architects.

Brick and mortar problems under investigation include the absorption and surface characteristics of brick, and differences in mortars due to varying the cementing materials, sand, and pigments. Properties of the mortars which are being studied carefully are workability, compressive and transverse strength, absorption and permeability, shrinkage, durability, staining and efflorescence, and elasticity. Information is being collected to determine whether the 10 per cent. of lime often specified by architects or the 25 per cent. or more usually employed by brick masons gives better all-around results.

The problems in backing include a study of hollow tile of different sizes, of brick, of cinder or concrete block, of brick tile, and of metal or other lath on steel frame. Variations in workmanship are most apparent in regard to tapping, pointing, and the filling of head-joints. The first mentioned subject is being studied, not only in regard to the effect of excessive downward tapping into place, but also in regard to plumbing both before and after initial set.

Among the most important problems of design are the nature of the backing unit and the method of connecting the face and backing. Coping and parapet construction are likewise being investigated. Capillary contact with the ground and condensation allow moisture to penetrate into the wall and must be guarded against. Finally, a study of special interest in this day of high buildings is the elasticity of walls of different types.

Special mention should be made of weather problems. The experiments have been planned for the purpose of investigating the behavior of mortar with reference to the other variables in all types of climatic conditions.

The whole study provides an addition-

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al instance of the manner in which scientific methods are adapted to every day problems. Scientist and engineer, business man, architect, skilled workman, and laborer are all working together for the improvement of living and economic conditions of the world.

All results of this investigation will be published for the benefit of every one interested in building construction.—*Architecture and Building*.

SAVING AND INVESTING

Investments, generally speaking, are made usually with the definite hope of an appreciation in value of whatever one buys and an expectation of being able eventually to sell at a profit, meantime realizing a fair return upon one's money. Too many of them fail to live up to such expectations.

Saving is that interesting experience entailing sacrifice and more or less penny-pinching and skimping which is necessary with most folk before they can step into the investment class. Incidentally it requires considerably more determination and stick-to-itiveness than does investing.

And the road is longer and harder.

The vista of thrift stretches out immeasurably and endlessly, but the terminus may be very suddenly and disastrously reached in investment. One can always save; the better when he has the least. But he finds it increasingly difficult to invest as his capital dwindles.

The money one puts into a brick home is not only saved, but usually is well and safely invested. Ordinarily the brick house, well located, increases in value as the years go by and the city expands. There is comparatively little depreciation during the first twenty-five years, and by that time most people are ready to sell and build another house. Meantime they have enjoyed a fine return on their money.

It is the high resale value of the brick home that in the end always is most gratifying. No other type of home equals the brick house in this respect.

—*Building Economy*.

HELP THE FIREMEN RESCUE THE DOLLARS

Dollars have a strange and persistent way of disappearing. You may have a fortune today and lose it next week, or next month, or next year. It may slip away from you by degrees, by the decrease in value of your investments, or from careless handling or indifferent and extravagant habits of your own.

But always the dollars will survive although you may have lost them. Someone else gets them or has them. They remain in existence, and one day or another you may win them back.

It isn't so with the dollar that goes up in smoke in a residence, a business block or industrial fire.

Those dollars simply die. They are never restored. They may be replaced in part by the insurance companies but the original investment is wiped out forever.

All that remains to show for those dollars is an ash heap.

No other factor in our economic life causes so great a leakage of intrinsic worth as does fire. Nothing is so destructive of value. Nothing kills more dollars.

Yet people continue to take chances with conflagration. They build of inflammable materials to save a few dollars at the outset only, too often, to lose tremendously in the end. Nothing could be more shortsighted.

Firesafe masonry construction, generally adopted, would save America untold millions of dollars annually. Brick does not burn. It is the greatest and most effectual deterrent of communicated fires.

Even where fire attacks the building with walls of brick there is always a very large proportion of salvage regardless of how great the destruction. Fire never burns up the dollars invested in brick.

These facts are all too frequently overlooked in the propaganda the fire preventioners put out during these Fire Prevention Weeks. Their arguments would be far more effective in the long run were they to urge building against fire instead of urging greater care after an inflammable structure has been built.

It is fine to be careful.

It is better to be foresighted.

The place to begin fire prevention effort is at the architect's drafting board.

Firesafe buildings are the best prevention against fire. And brick construction is the answer.

—*Building Economy*.

BOTH SIDES OF PAINT COSTS

Prospective builders should be interested in the recent statement of H. L. Wilkinson, treasurer of the American Paint & Varnish Manufacturers' Association, to the effect that the country's annual painting bill amounts to \$600,000,000 while the loss from failure to paint aggregates close to a billion dollars more. Much of this loss and cost falls upon the home owners of the United States.

Wilkinson was quoted as saying, "The depreciation because of lack of paint was set by bankers, grange officials and county agents at from 7.2 to 10.8 per cent. Using the lowest figures the annual loss on an investment of \$11,486,439,543 gives \$830,400,000. This alone would far more than pay for having the buildings painted every year."

It would be interesting to know just how much of that paint bill, and how much of that loss from its lack, applies to the homes of America. Wilkinson did not say, if in fact he knew.

But regardless of what the amount may have been it was far and away too much.

When common brick homes may be built, as they can be built today in most sections, at a cost not exceeding 5 per cent more than that of the frame home and frequently quite as cheap, there is no excuse for any man burdening himself with their excessive additional cost for painting.

Brick homes do not require painting save on the exposed woodwork about windows, doors and eaves. It is a very small amount at most. Negligible in fact.

The easiest way to save the surface is to build the wall of brick. It is far the most economical in the course of a decade. And the longer it goes the greater the dividends.

—*Building Economy*.

The 1929 meeting of the American Construction Council will be held December 12th, 13th, and 14th at the Sherman Hotel, Chicago, Illinois.

The general theme of this meeting will be: "How to Maintain Prosperity through Maintaining a High Level of Construction Activities."

This meeting will be held largely in the form of round table discussions on practical ways and means of encouraging construction. There will be, of course, speakers of national prominence as well as banquet and luncheon meetings.

Because of recent speculative developments in the securities market and business at large, the Council's Board of Governors last week authorized a statement to the public to stimulate the right kind of building investments.

A technical bulletin describing the "battledock floor" construction has just been issued by the American Institute of Steel Construction. This is a floor made of steel plates welded to I-beams. Appended to the description are allowable load tables figured for both web shear or flexure, whichever is least.

Some few experimental floors of this type have been installed during the past year. Special automatic welders have been designed to handle the work and a demonstration of the proper method of construction was staged at the Seventh Annual Convention of the Institute at Biloxi, Miss., on November 14. Complete engineering data on the floor is provided for the first time in the bulletin just issued.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. A carload of details can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

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Weber, F., Co. 125 S. 12th St., Phila.

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California Stucco Products Co. 1600 Arch St., Phila.
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Malia, Thos. J. 226-32 W. Mentor St., Phila.

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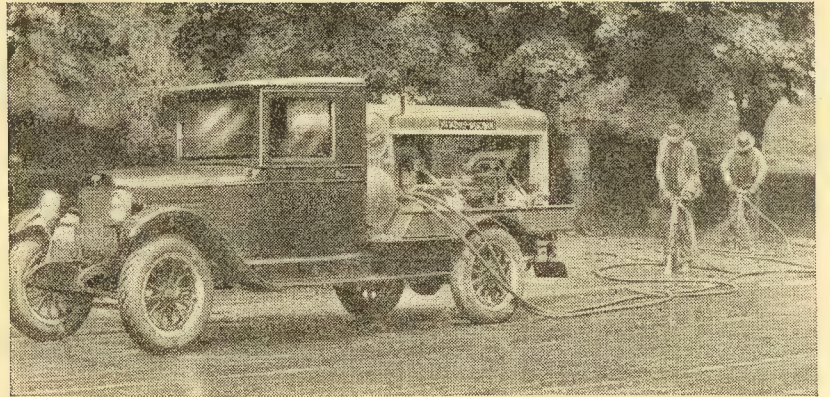
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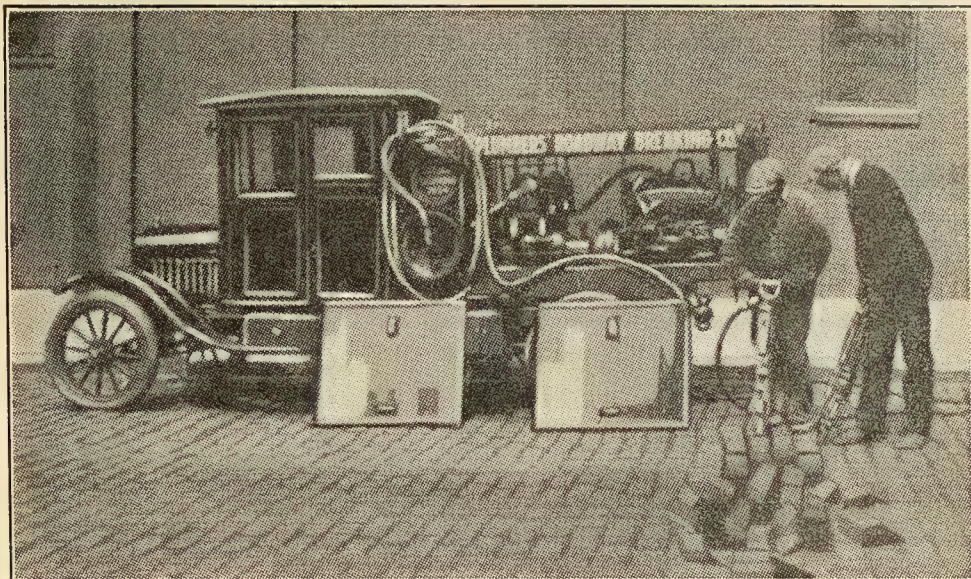
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 49

Engineering and the Building Trades

PHILADELPHIA

December 4, 1929

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Water Extension Lines, \$500,000. Eliminating Grade Crossing, \$2,000,000. Baltimore & Ohio Terminal Improvement, \$2,750,000. Main and Branch Sewers, Philadelphia, \$3,300,000. Work contemplated. Owners, City of Philadelphia, City Hall Annex, Philadelphia.

Harbor Improvement, Philadelphia, \$1,500,000. Work contemplated. Owners, Department of Wharves, Docks and Ferries, Philadelphia.

Beginning Airport Work, Philadelphia, \$1,000,000. Work contemplated. Owners, Department of City Transit, City of Philadelphia, City Hall Annex, Philadelphia.

Home for the Indigent, \$750,000, State road and Rhawn street, Philadelphia. House of Correction, \$500,000, State road and Rhawn street, Philadelphia. Work contemplated. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, City of Philadelphia, Department of Public Welfare, City Hall, Philadelphia.

Library Building, "B" and Wyoming avenue, Philadelphia. Work contemplated. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Free Library of Philadelphia, Nineteenth and Parkway, Philadelphia.

Store Building (alts.), Southwest Corner Sixty-ninth and Ludlow streets, Philadelphia. Work contemplated. Architects, Thalheimer & Weiss, 10 South Eighteenth street, Philadelphia. Owners, Lerner Stores, Inc., 352 Fourth avenue, New York City.

Stores (alts.), 41 North Thirteenth street, Philadelphia. Work contemplated. Owners,

Sturm & Sturm, 4028 Lancaster avenue, Philadelphia.

Apartment Building, Tulpehocken street and Wayne avenue, Philadelphia. Plans in progress. Architect, Charles Schaefer, 11 South Sixteenth street, Philadelphia. Owner, James Egnal, care of James' Garage, 323 North Fourth street, Philadelphia. Brick, steel, 3 stories and basement, 290x180 feet, irregular, steel sash, vapor heat, oil burner, elevator, built-in beds, tile baths, kitchen cabinets, hardwood floors, linoleum floors, incinerator.

Recreation Building, Woodside Park, Philadelphia. Plans completed. Architect ready for bids in a few days. Architect, Edwin Schoeppe, 1601 Spruce street, Philadelphia. Owners, Woodside Real Estate Co., on premises. Frame, steel and stucco, 1 story, 60x60 feet, pine and cement floors, vertical sliding doors.

Residence (alts. and add.) into Apartments and Stores, Frankford Section. Plans in progress. Architect ready for bids in 3 weeks. Architect, Edwin Schoeppe, 1601 Spruce street, Philadelphia. Owner, name withheld. General alterations.

Frankford Hospital, \$1,500,000. 4940 Frankford avenue, Philadelphia. Architects will take bids about January 1st. Architects, Stearns & Woodnut, Stephen Girard Building, Philadelphia. Owners, Frankford Hospital, on premises. 9 stories and basement, solarium, dining room, cafeteria, brick, limestone, steel and concrete, 200 beds.

Residences (18), Comly street, at Roosevelt Boulevard, Philadelphia. Owners ready

for sub-bids in two weeks. Architect, private plans. Owners, Brinkman & Hoover, 2617 Frankford avenue, Philadelphia. Brick, 2 stories, 16x39 feet, hot water heat, electric light, slag roof, oak and yellow pine floors.

Psychopathic Hospital, Philadelphia, Pa. Owners taking bids due December 16th, noon. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Bureau of Hospitals, Philadelphia General Hospital, Thirty-fourth and Pine streets, Philadelphia. Bids opened Director's Office, Department of Public Health, Room 503, City Hall Annex, Philadelphia. Construction and erection of elevator tower and elevator for present Building "D," including plumbing, heating and electric work.

Apartment House, 6124-34 Pine street, Philadelphia. Owners taking sub-bids. Architect, Richard R. Neely, 2301 Spruce street, Philadelphia. Owners, Herko Construction Co., care of W. L. Yunkle, Northwest Corner Juniper and Chestnut streets, Philadelphia. Brick, steel, limestone, 4 stories and basement, 95x95 feet, vapor heat, electric light, metal lath, tile, kalamein doors, slag roof, oak and yellow pine floors, elevators.

Store Building, 1722 Sansom street, Philadelphia. Architect taking bids due as soon as possible. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick, cast stone, steel, 2 stories and basement, 90x18 feet, electric light, metal lath, ornamental iron work, slag roof, yellow pine and cement floors, demolition, excavation, cement and concrete work, cast stone, granite, carpentry and mill work, painting and glazing, plumbing.

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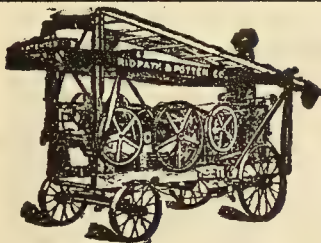
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Residences and Garages (4), \$17,600 total. South side Stanwood street, East of Loretto street, Philadelphia. Permit issued. Architect, private plans. Owners, Isard & Orleans, Shubert Building, Philadelphia. Brick, 2 stories, 16x26 feet, 18 feet 6 inches x 24 feet, slag roof, hardwood and pine floors, hot water heat, electric light, garages 10x10 feet.

Garage, \$5,000. Kitchen Lane, West of Wissahickon avenue, Philadelphia. Permit issued. Architect, private plans. Owner, William R. Eisenbower, on premises. Stone, 1 story, 23x64 feet, electric light, cement floors.

Store and Storage Building (add.), \$2,000. 1136 West Girard avenue, Philadelphia. Permit issued. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, Penn Capital City Limb Co., 941 North Twelfth street, Philadelphia. Brick, 2 stories add., 18x32 feet 6 inches.

Schedule "A," Construction with Appurtenant Work, Schuylkill River Bulkhead, West side of Penrose Ferry Bridge, Philadelphia. Section 105, Schedule "B," Construction with Appurtenant Work, West side, North of Penrose Ferry Bridge, Philadelphia. Owners taking bids due December 16th, noon. Owners, Municipal Pier No. 4, South Wharves, Foot of Chestnut street, Philadelphia. Certified check.

Supplies, etc., Philadelphia, Pa. Owners taking bids due December 6th, noon. Opened Room 305, City Hall Annex, Philadelphia. Owners, Department of Supplies, Room 305, City Hall Annex, Philadelphia. Furnishing hot water generators and steel store room platforms. Certified check, 5 per cent.

Contract No. 157, Broad Street Subway, Philadelphia. Low bidder, Joseph Schiller, 1314 South Lawrence street, Philadelphia, Pa., \$9,990. Owners, Department of City Transit, Thirteenth Floor, City Hall Annex, Philadelphia. Door openers for shop buildings, Fern Rock Terminal Yard.

Bridge, over Cobb's Creek at Sixty-third street, Philadelphia. Survey being made. Owners, Delaware County and City of Philadelphia.

Bulk Terminal, 36th and Gray's Ferry Rd., Philadelphia. Plans in progress. Architect, private plans. Owner, Shell Eastern Petroleum Products, Inc., Elverson Building, Philadelphia, care C. Watts, Elverson Building, Philadelphia. Brick and steel, 4 stories, erecting 10 steel tanks.

Second Section of Ridge Avenue Subway, Eighth street from Ridge avenue to near Locust street, Philadelphia. Owner ready for bids December 30th. Contract No. 302. Architect, private plans. Owner, City of Philadelphia, Dept. of City Transit, City Hall Annex, Philadelphia. Deposit \$50 refunded. Certified check.

Sales and Service Station, Southeast corner Twenty-first and Chestnut streets, Philadelphia. Plans completed. Architect will take sub-bids in few days. Architect, A. C. Bieber, 1520 Locust street, Philadelphia. Owner, Name withheld. Brick, stucco, 1 story, 20 x 100 feet, asbestos roof, cement work, plumbing, electric work.

Service Station, Anderson and Wister sts., Philadelphia. Plans completed. Architect will take sub-bids in few days. Architect, A. C. Bieber, 1520 Locust street, Philadelphia. Owner, name withheld. Irregular, brick and stucco, electric light, asbestos roof, cement work, plumbing.

Church and Sunday School (alts. and add.), Southeast corner Seventh and Luzerne streets, Philadelphia. Plans in progress. Architect will be ready for bids January first. Architect, Office of John B. Thomson, 1321 Arch street, Philadelphia. Owner, St. Matthew's Lutheran Church, Rev. H. Brauns, 640 Luzerne street, Philadelphia. Stone, limestone, caststone, 1 and 2 stories.

Service Station, \$2,500. Northeast corner Wister and Anderson streets, Philadelphia. Permit issued. Architect, Alvin C. Bieber, 1520 Locust street, Philadelphia. Owners, Paramount Service Co., 55th and Market sts., Philadelphia. Brick, 1 story, 18 x 9 feet, slag roof, cement floors, electric work.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Reconstruction Shipways, Navy Yard, Philadelphia. Contract awarded. Architect, private plans. Owners, Bureau of Yards and Docks, Navy Department, Washington, D. C. Reconstruct shipbuilding ways, 604x100 feet. Van Asdlen Construction Co., 1600 Arch street, Philadelphia, \$227,883.

Bank Building, Broad and Columbia avenue, Philadelphia. Contract awarded John N. Gill Construction Co., 1500 Chestnut street, Philadelphia, who are taking sub-bids on revised plans and specifications due December 4th. Architect, Paul Cret, Otis Building, Philadelphia. Owners, Integrity Trust Co., Walter

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Hart, Sixteenth and Walnut streets, Philadelphia, Pa. Brick, limestone, reinforced concrete, 10 stories and basement, 54x118 feet, steam heat, electric light, metal lath, marble and hollow metal sash, bond, iron stairs, ornamental iron work, bronze work, area gratings, cinder concrete block, Barrett specification roof, concrete roof deck, cement floors, elevators, caulking, waterproofing, demolition, excavation, imitation travertine, metal doors, metal toilet partitions, plumbing.

Office Building, Southwest Corner Fifth and Walnut streets, Philadelphia. Contract awarded Starrett Brothers, 101 Park avenue, New York City. Architects, John H. & Wilson C. Ely, 605 Broad street, Newark, N. J. Owners, Firemen's Insurance Company, Neill Bassett, President, 10 Park avenue, Newark, N. J. Brick, limestone, steel, 8 stories and basement, 50x70 feet, steam heat, electric light, metal lath, ornamental iron work, built-up roof, cement floor, elevators.

Platform Shelters (alts.), Columbia Avenue Passenger Station, Eighth and Columbia avenue, Philadelphia. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia. Engineer, Clark Dillenback, Reading Terminal Building, Philadelphia. Owners, Reading Railroad Company, Twelfth and Market streets, Philadelphia. Bond, structural steel, iron work, carpentry work, repairs to roof, painting.

Repairs and Remodeling Building, 223-27 Chestnut street, Philadelphia. Contract awarded F. W. Van Loon, Lafayette Building, Philadelphia. Architect, James A. Wetmore, Acting Supervising Architect, Treasury Building, Washington, D. C. Repairs and remodeling.

Printing Building, 5001-11 Lancaster avenue, Philadelphia. Contract awarded Robert E. Lamb Co., 841 North Nineteenth street, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Board of Publication, United Lutheran Church, 1228 Spruce street, Philadelphia. Reinforced concrete, brick, limestone, steel, 2 stories and basement, metal lath, terrazzo, hollow metal doors, bond, ornamental iron work, 98x133 feet, yellow pine and cement floors, metal weather strip, hollow metal windows.

Store (alts.), \$3,500. Northeast Corner Howard and Master streets, Philadelphia. Contract awarded Kempf Brothers, 1339 North Howard street, Philadelphia. Architect, private plans. Owner, James Butter, on premises. General alterations, re-arranging partitions, plastering, painting, electric work, imitation marble, structural steel, brick work, mill work.

Service Station, Northeast Corner Godfrey and Rising Sun avenue, Philadelphia. Contract awarded to Lutz Construction Co., Twenty-third and Chestnut streets, Philadelphia.

Architect, private plans. Owners, Standard Oil Company, A. F. Holler, Public Ledger Building, Philadelphia. Hollow tile and stucco, 1 story, 18x39 feet, tile roof, cement floors.

Furnishing and Laying Six-Inch, Eight-Inch and Twelve-Inch Pipes in various streets, Phila. Architect, private plans. Owners, Dept. of Public Works, Bureau of Water, Alexander Murdoch, Director, 903 City Hall Annex, Philadelphia. Contract awarded M. & J. B. McHugh, 892 North Markoe street, Philadelphia, Pa., \$87,151.75.

Residence (alts.) into Two Apartments and Funeral Parlor, 214 West Coulter street, Philadelphia. Contract awarded William C. Wright & Son, 22 Harvey street, Philadelphia. Architect, private plans. Owner, Walter C. Backett, on premises. Carpentry and mill work, plumbing, electric work, slag roof, hot water heat, painting and glazing.

Storage Building, \$20,000. 413-15 North Hutchinson street, Philadelphia. Contract awarded Wintz Brothers, 1618 Sellers street, Philadelphia. Architect, private plans. Owners, George Esslinger Sons Brewery Co., 417 North Tenth street, Philadelphia. Brick and concrete, 3 stories, 46x58 feet.

Residence and Store (alts. and add.), \$4,000. 258 South Fifth street, Philadelphia. Contract awarded Philip Savar, 718 Snyder avenue, Philadelphia. Architect, private plans. Owner, Harry Gitman, 1210 South Fifth street, Philadelphia. Brick, 2 stories add., 14x38 feet, general alterations.

Store and Office (add.), \$6,000. 427 West Tabor street, Philadelphia. Contract awarded Supper & Forster, 5440 North Mascher street, Philadelphia. Architect, private plans. Owner, Lloyd Burt, 5419 North Fourth street, Philadelphia. Brick, 1 story add., 9x37 feet.

Garage, \$3,000. 200 Sumac street, Philadelphia. Contract awarded William D. Ralston, 5199 Ridge avenue, Philadelphia. Architect, private plans. Owner, Mariah Salmon, 200 Sumac street, Philadelphia. Brick, 1 story, cement floors, electric light.

Laundry, \$2,200. 544 West Olney avenue, Philadelphia. Contract awarded Supper & Forster, 5440 North Mascher street, Philadelphia. Architect, private plans. Owner, William F. Schrant, on premises. Brick, 1 story, 10x20 feet, 20x30 feet.

Manufacturing Building, \$60,000. South side Cortland street, East of "A" street, Philadelphia. Contract awarded Albert Dunlap, Jenkintown, Pa. Architect, private plans. Owner, S. Tate, 1314 Van Kirk street, Philadelphia. Brick, 2 stories, 70x121 feet.

Residence (add.), \$2,000. 309 West Highland avenue, Philadelphia. Contract awarded Ralph J. Bucks, 7725 Germantown avenue, Philadelphia. Architect, private plans. Own-

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er, Christine Frazier, on premises. Addition to residence.

Residence (add.), \$5,000. 811 Westview street, Philadelphia. Contract awarded Sinclair & Grigg, 1518 Walnut street, Philadelphia. Owner, Hon. H. S. McDevitt, on premises. Brick, 1 story add., 20 feet 4 inches x 31 feet.

Contract No. 223, South street, to North of Girard avenue, Philadelphia. Contract awarded M. & J. B. McHugh, 892 North Markoe street, Philadelphia. Owners, City of Philadelphia, Department of City Transit, City Hall Annex, Philadelphia. Compact rail and bonding track.

Manufacturing Building (repairs), \$6,000. East side Twenty-second street, south of Westmoreland street, Philadelphia. Contract awarded Rush J. Whiteside & Son, 2115 Wallace street, Philadelphia. Architect, private plans. Owners, Westmoreland Chemical Co., on premises. General fire repairs.

Stores (5), 219-21 W. Cheltenham avenue, Philadelphia. Contract awarded Wm. Taitt, Drexel Hill, Pa. Architect, private plans. Owner, Isaac Grossman, 127 South 18th street,

Philadelphia. Brick, 1 story, 18 x 65 feet each, electric light, plate glass, slag roof, pine floors.

Engine House (add.), sub-structure only. South Philadelphia, Terminal Yard. Contract awarded McNichol Paving and Construction Co., 1923 Cherry street, Phila. Engineer, Wm. H. Cookman, Broad Street Station Building, Philadelphia. Owner, Pennsylvania Railroad So., 15th and Market street, Philadelphia. Reinforced concrete, 10 stall extension, excavation, concrete, miscellaneous iron work, steel work, shoring, wood piling.

Pennsylvania Construction News

School Building, Melrose avenue and Twelfth street, Sun Village, Pa. Work contemplated. Architect, private plans. Owners, Chester School Board, Charles E. Sanderson, Secretary, Chester, Pa.

Stores and Office Building, Long Lane and Chestnut street, Upper Darby, Pa. Work contemplated. Owner, Edwin Schuyler, care of L. Carl Kenny, Upper Darby, Pa. Brick, 128x109 feet, 262x202 feet.

Bus Station, Sixty-ninth Street Section. Work contemplated. Architect, not selected. Owners, Upper Darby Township, care of John M. Goehring, Commissioner. Elimination of grade crossing over network of tracks.

Hotel (alts.), \$50,000. York and High streets, Pottstown, Pa. Work contemplated. Architect, not yet selected. Owners, Merchants' Hotel, on premises. Too early for details.

Sewage Disposal Plant, \$250,000. Pottstown, Pa. Work contemplated. Architect, private plans. Owners, City of Pottstown, John K. Klink, Burgess, Pottstown, Pa. Too early for details.

Sewer System, Permanent Paving of Streets and Alleys, Pottstown, Pa. Work contemplated. Architect, private plans. Owners, City of Pottstown, John K. Klink, Burgess, Pottstown, Pa.

Residence, \$40,000. St. Clair, Pa. Plans completed. Architect, Frank X. Reilly, 112 South Centre street, Pottsville, Pa. Owner, Dr. R. F. Weaver, Jr., North Second street, St. Clair, Pa. Brick and cast stone, 2½ stories.

Brick Plant, Bethlehem, Pa. Architects selected. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, name withheld. Too early for details.

Church, Kingston, Pa. Plans in progress. Architect, T. A. Foster, Brooks Building,

Wilkes-Barre, Pa. Owners, Grace Episcopal Church, Kingston, Pa. Stone, steel, 1 story and basement, seating capacity 300, slate roof, maple floors, electric light.

Sales and Service Garage, 230 North Eighth street, Allentown, Pa. Revised plans in progress. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, Frank Wolf, care of Engineer. Fireproof, 2 stories, 36x120 feet, slag roof, concrete floors, electric light, steel sash.

Stadium, Grandstand and House, \$500,000. Site not yet selected. Scranton, Pa. Preliminary plans in progress. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, Lackawanna Valley Stadium Association, R. J. Richards, 516 Spruce street, Scranton, Pa. Concrete, steel, 1 story, 875x450 feet.

Fire House, Parsons, Pa. Plans in progress. Architects, Innes & Levy & C. Schmitt, 176 South Main street, Wilkes-Barre, Pa. Owners, City of Wilkes-Barre, D. Hart, City Hall, Wilkes-Barre, Pa. Frame, 2 stories.

Factory and Mill (add.), \$100,000. Albright avenue, Scranton, Pa. Plans in progress. Architects, Morton C. Tuttle Co., Boston, Mass. Owners, Scranton Lace Co., P. B. Belive, Glenn and Meylert avenues, Scranton, Pa. Fireproof, 2 stories.

Pennsylvania State Oral School (alts. and add.), \$98,000. Washington avenue and Electric street, Scranton, Pa. Plans in progress. Ready for bids about April. Architects, Davis & Lewis, Scranton Elec. Building, Scranton, Pa. Owners, Pennsylvania State Oral School, Department of Public Buildings, Frank St. Clair, Engineer of Construction, Harrisburg, Pa. Fireproof, 3 stories.

Residence, East Stroudsburg, Pa. Plans completed. Architects, Davis & Lewis, Scranton Elec. Building, Scranton, Pa. Owners, East Stroudsburg Teachers' College, Department of Public Buildings, Frank St. Clair, Harrisburg, Pa. Brick, 2½ stories, slate roof, electric light, metal lath, casement windows (heating, plumbing and electric separate).

Raub Junior High School (add.), St. Cloud and Walnut streets, Allentown, Pa. Owners will be ready for bids first of year. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Allentown School District, D. A. Miller, President, 29 South Penn street, Allentown, Pa. Fireproof, 3 stories, 109x33 feet, 39x65 feet, 30x40 feet, maple and composition floors, hollow tile, safety treads, roof ventilators, fire doors, steel sash and skylights, tile, marble, metal lath. (Note correction.)

Liberal Arts Building (add.), State College, Pa. Ready for bids in a month. Architect,

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Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Penn State College, State College, Pa. Brick, steel, concrete, limestone, 3 stories, slag roof, cement work, electric light.

Home Economics Building, State College, Pa. Ready for bids in a month. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, State College, R. B. Hetzel, President, on premises.

Apartment House, Chester, Pa. Architect will be ready for sub-bids in a week. Architect, Richard R. Neely, 2301 Spruce street, Philadelphia. Owners, Herko Construction Co., care of W. L. Yunker, Northwest Corner Juniper and Chestnut streets, Philadelphia. Brick, limestone, steel, 4 stories and basement, 95x95 feet, vapor heat, electric light, metal lath, tile, ornamental iron work, slag roof, oak and yellow pine floors.

Bungalows (3), West Chester Pike and Fairland avenue, Manoa, Pa. Joseph Harris, Wayne, Pa., will build. Architect and builder will take sub-bids December 2nd. Architect, Charles H. Schaef, 11 South Sixteenth street, Philadelphia. Owner, name withheld. Stone, brick, frame, 1½ stories, 28x42 feet, 1 story, 10x18 feet, shingle roof, oak floors, hot water heat, electric light, tile work, steel sash.

High School, Dickson City, Pa. All bids rejected. Will take revised bids later. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Dickson City School Board, F. Wieland, Secretary, Dickson City, Pa. Fireproof, 2 stories and basement, 154x137 feet, slag roof, pine floors.

Apartment House, Penfield, Pa. Owner ready for sub-bids in a week. Architect, Richard R. Neely, 2301 Spruce street, Philadelphia. Owner, R. J. Darrah, Juniper and Chestnut streets, Philadelphia. Brick, limestone, steel, 3 stories and basement, 90x90 feet, hot water heat, electric light, metal lath, tile, ornamental iron work, slag roof, oak and yellow pine floors.

Church (alts. and add.), Nanticoke, Pa. Architect taking bids due as soon as possible. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Holy Trinity Church, Rev. R. Wienolowski, Nanticoke, Pa. Brick, steel, stone, 82x43 feet, 35x67 feet, tower 130x20x20 feet, tile roof, wood floors, electric work, tile and marble.

Agricultural Building, Hatfield, Pa. Owners taking bids due December 11th, 5 P. M. Engineer, S. W. Franklin, 17 West Main street, Lansdale, Pa. Owners, Hatfield Consolidated School Board, Hatfield, Pa., Andrew West, Secretary, Hatfield, Pa. Brick, 1 story, 30x60 feet. Deposit, \$5. Bids to be opened in Consolidated School Building, Hatfield, Pa.

Apartment House, Montgomery and Morris avenues, Bryn Mawr, Pa. Owners taking bids due as soon as possible. Architect, Richard R. Neely, 2301 Spruce street, Philadelphia. Owners, Arcraft Construction Co., 625 Widener Building, Philadelphia. Brick, steel, limestone trim, 3 stories.

Residence and Garage (alts. and add.), Elkins Park, Pa. Architects taking bids due December 12th. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, William Rosenwald, care of Sears-Roebuck Co., Roosevelt Boulevard, Philadelphia. General alterations.

Terra Cotta Sewer and Appurtenances, Edgemont avenue, from Twenty-fourth street to North City Line, Chester, Pa. Owners taking bids due December 17th, 2 P. M. Engineer, City Engineer G. J. Hunter, Superintendent of Streets and Improvements, Chester, Pa. Owners, City of Chester, Pa. Deposit, \$5. Certified check, \$500. Approximately 975 feet 24-inch terra cotta pipe, 360 feet 18-inch terra cotta pipe, 20 24x5 terra cotta T's and 12 18x5 terra cotta T's, 5 drop manholes complete, 3 line manholes complete, 20 cubic yards concrete, 10 tons stone. Bond, 50 per cent.

Sewer Line, State Teachers' College, Lock Haven, Pa. Owners, care of B. E. Taylor, Secretary, Department of Property and Supplies, Capitol Building, Harrisburg, Pa., taking bids due December 6th, 2 P. M. Engineers, Stewart A. Jellett Co., 1200 Locust street, Philadelphia. Owners, Commonwealth of Pennsylvania, Department of Property and Supplies, B. E. Taylor, Secretary; Frank St. Clair, Chief Engr., Capitol Building, Harrisburg, Pa. Bond, 100 per cent. Excavation, salt glazed terra cotta pipe, cast iron pipe. Certified check, \$100.

Apartment House, Yeadon, Pa. Chas. S. Bannett, Inc., 4700 Springfield avenue, Philadelphia, taking sub-bids due as soon as possible. Architect, W. L. Bailly & Assoc., 421 Chestnut street, Philadelphia. Owner, David Rader, 5415 Florence avenue, Philadelphia. Brick and steel, 4 stories and basement, 150 x 85 feet, vapor heat, electric light, metal lath, tile, rolled steel sash, concrete work, fish pool, 20 x 30 feet, slag or slate roof, miscellaneous iron work.

Church (alts. and add.), Darby, Pa. Architect will be ready for bids January 15th. Architect, Office of John B. Thomson, 1321 Arch street, Philadelphia. Owner, Mt. Zion M. E. Church, Rev. Warren T. Dunkle, Darby, Pa. Brick, steel and stone work, 1 and 1½ stories and basement.

Fencing and Door Closers, Yeadon, Pa.

Owner taking bids due December 12, 7 P. M. Owner, School District of Yeadon, Geo. R. Anderson, secretary, 906 Church lane, Yeadon, Pa. Approximately 25 door closers. Approximately 186 lineal feet of 2 inch No. 9 gal-

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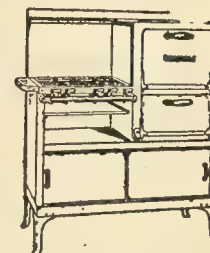
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Sunday School, Bryn Mawr, Pa. Architect taking bids due December 11th, noon. Architect, Karcher & Smith, 1520 Locust street, Philadelphia. Owner, Bryn Mawr Presbyterian Church, Rev. Andrew Mutch, Bryn Mawr, Pa. Stone, 1 story.

Pennsylvania Contracts Awarded

Game Room, \$40,000. Broadwater Farms, near Phoenixville, Pa. Contract awarded Wm. H. Eddleman, 5550 Ridge avenue, Philadelphia. Architect, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owner, Frank B. Foster, on premises. Stone, stucco, steel, 2 stories and basement, 67 x 34 feet, vapor heat, electric light, metal lath, tile, marble, ornamental iron work, area gratings, slate roof, cement and oak floors, plumbing, caulking, dampproofing, flagstone, reinforced concrete work, brick work, carpentry and millwork, plastering, painting and glazing.

Synagogue, 242 South Franklin street, Wilkes-Barre, Pa. Contract awarded William H. Schmaritzriedt, 103 Old River road, Wilkes-Barre, Pa. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Ohab-zedek Hebrew Cong., Rabbi I. M. Davidson, 300 East King street, Wilkes-Barre, Pa. Brick, steel, 1 story and basement, 68x120 feet, slag roof, hardwood floors, hollow tile, roof ventilators, waterproofing and dampproofing, architectural terra cotta, ornamental iron, bronze, metal lath, tile, marble.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Fayette County, R-429, Sec. 1, Nicholson and Georges Townships, Smithfield Borough. One course reinforced concrete, double span

reinforced concrete bridge. A. G. Rothey, Elizabeth, Pa., \$358,291.54.

Bucks County, R-155, Warwick Township. Bridge over Little Neshaminy Creek. Excavation, borrow, bituminous surface treated macadam surface course, concrete, plain steel bars, fabricated structural steel. Richard L. Evans, Ambler, Pa., \$29,321.69.

New Jersey Construction News

Incinerating Plant, \$200,000. Twenty-ighth street, near Great Egg Harbor Bay, Ocean City, N. J. Project approved. Plans to be started immediately. Will take bids early in January. Engineer, William Califfon, Ocean City, N. J. Owners, City of Ocean City, Ocean City, N. J.

School (add.), West Sharon, N. J. Owners will be ready for bids next week. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Deptford Township School Board, Herbert I. Clement, Clerk, R. F. D., Westville, N. J. Brick, 1 story and basement, 80x35 feet, slate roof, pine floors (heating, plumbing and electric separate).

High School, Washington street, Riverside, N. J. Owners ready for bids in a week. Architect, Alexander Merchant, New Brunswick, N. J. Owners, Riverside Township Board of Education, John Taylor Neal, President, Riverside, N. J. Brick, steel, 2 stories and basement, 9 rooms, gymnasium.

School Building, Springfield Township, N. J. All bids rejected. Owners taking bids (revised) due December 18th. Architect, William H. Kenderdine, Mt. Holly, N. J. Owners, Springfield Township School Board, Mrs. Clifford Borden, President, Juliustown, N. J. 1 story, brick, 40x100 feet.

Residence, Baltimore avenue, near Ocean avenue, Ventnor, N. J. Golder Construction Co., 1600 Arch street, Philadelphia, taking bids due December 5th. Architect, private

plans. Owner, care of Builder, Golder Construction Co., 1600 Arch street, Philadelphia. Brick, 3 stories, lot 50x62 feet, hot water heat, electric light, metal lath, tile, shingle roof, oak and yellow pine floors.

Apartments (two-family) (16), \$4,000 each. 234-64 Boyd street, Camden, N. J. Permit issued. Architect, Charles K. Roberts, Otis Building, Philadelphia. Owners, Whittaker Bros., Inc., First National Bank Building, Camden, N. J. Brick, 2 stories, 16x32 feet, 19x28 feet, Carey roof, hot water heat.

Covered Passageway, New Jersey State Hospital, Trenton, N. J. Low bidder: LeRoy Birkhead, Greenway avenue, Trenton, N. J., \$4,700. Heating, Howard Martindell, 229 Ardmore avenue, Trenton, N. J., \$963. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Dormitory Building, Jones' Farm, State Hospital, Trenton, N. J. Low bidder: Edward LaRue, 53 South Hermitage street, Trenton, N. J., \$40,320. Plumbing, John Black & Son, 134 Prospect street, Trenton, N. J., \$4,925. Heating, Philip Slack & Son, 211 Perry street, Trenton, N. J., \$8,800. Electric, Commercial Electric Co., Newark, N. J., \$1,485. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, stone, concrete block, 2 stories, 121x41 feet, slate roof, linoleum floors, ceramic tile, metal lath, marble, kalamein doors.

Kitchen and Dining Hall, New Jersey State Hospital for Insane, Trenton, N. J., \$122,975. Low bidders: C. J. Smith Construction Co., 202 Academy street, Trenton, N. J. Plumbing, John Black & Son, 134 Prospect street, Trenton, N. J., \$7,145. Heating, John Black & Son, 134 Prospect street, Trenton, N. J., \$12,845. Electric, Peter Peifer, Trenton, N. J., \$5,386. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, reinforced concrete, 1 and 2 stories, 100x150 feet, slate roof, quarry tile floors, roof ventilators, steel sash, area gratings, iron stairs, kalamein doors.

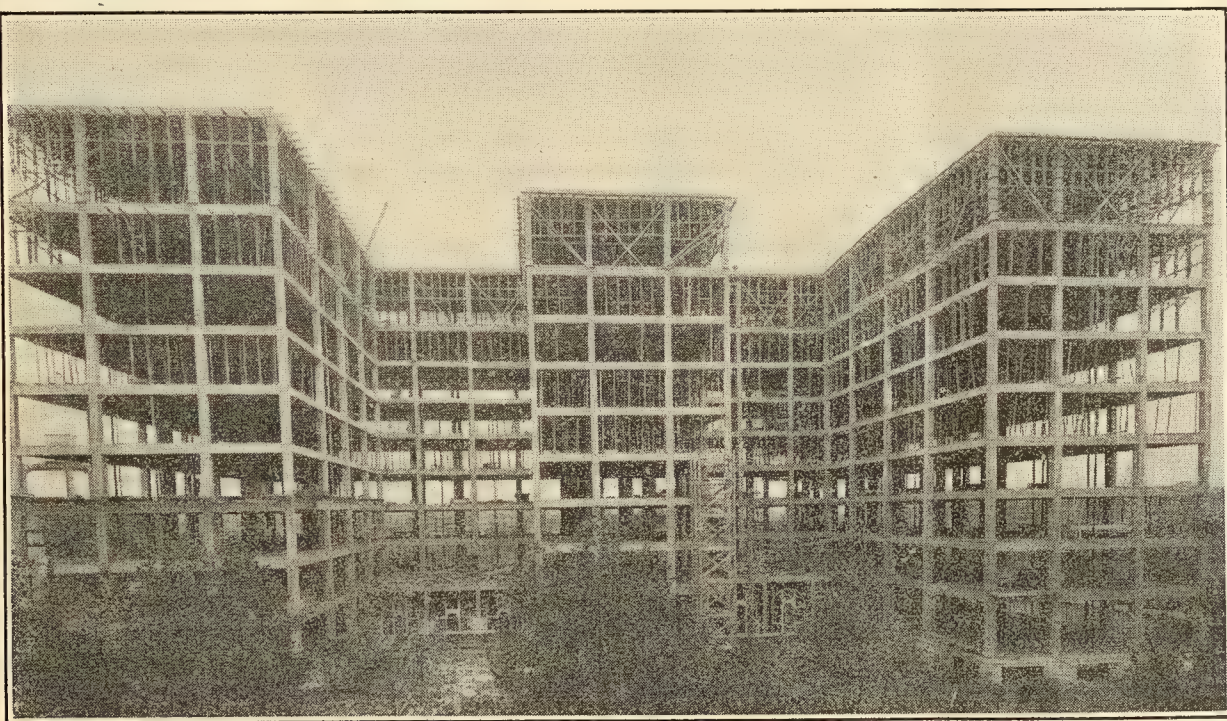
Bridge, over Scotch Bonnet Creek, on Stone Harbor Boulevard, N. J. Plans in progress. Owners ready for bids in 3 weeks. Engineer, County Engineer Rowland Sharp, Cape May, N. J. Owners, Cape May Board of Freeholders, Joseph G. Champion, Director of County Bridges, Cape May, N. J.

Grading, Filling and Graveling, \$122,653. Bay avenue, between Thirty-fourth street and Fifty-fifth street, Ocean City, N. J. Low bidder: East Coast Construction Co., Ocean City, N. J. Owners, City of Ocean City, Ocean City, N. J. Contract will be awarded in few days.

Residence (alts. and add.), Edgewater Park, N. J. Ready for bids in a few days. Architect, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owner, Mrs. Gilbert M. Wilson, Edgewater Park, N. J. General alterations and additions.

Apartment Building, 2624-26 Federal street, Camden, N. J. Architect taking sub-bids. Architect, Frank W. Hall, Sixth and Penn streets, Camden, N. J. Owner, Morris Gelfand, 218 South 27th street, Camden, N. J. Brick, steel, 3 stories and basement, 40 x 86 feet, electric light.

Sunday School (alts. and add.), Woodbury, N. J. Architect will be ready for bids Jan. first. Architect, Office of John B. Thomson, 1321 Arch street, Philadelphia. Owner, The



Pictured above is the \$2,500,000 Reinforced Concrete Unit of the \$10,000,000 project of The Walnut Plaza Co., at 63rd and Walnut Streets, Philadelphia. It was erected in 69 working days by Frederick Massiah and is one of Philadelphia's largest beam and girder jobs.

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Presbyterian Church, Rev. Geo. E. Gillespie, Woodbury, N. J.

Conveyor Bridge from Building No. 17-A to Building No. 24, Delaware avenue north of Market street, Camden, N. J. \$28,000. Permit issued. Architect, private plans. Owners, Victor Talking Machine Co., Camden, N. J. Concrete, 1 story, 11 x 135 feet, asbestos roof.

Armory, Seventh street and Leland avenue, Plainfield, N. J. Sketches in progress. Indefinite when bids will be taken. Architect, Chas. N. Leatham, Jr., Division of Architecture and Construction, State House, Trenton, N. J. Associate Architect, Alfred M. Korff, 203 Park avenue, Plainfield, N. J. Owners, State Military Board, State Office Building, Trenton, N. J. Brick, 2 stories. Too early for details.

New Jersey Contracts Awarded

Store Front, \$4,000. No. 6 and 8 Broadway, Camden, N. J. Contract awarded Mark Cons. Co., 832 Ninth avenue, New York. Architects, Beinx & Snyder, 11 E. 44th street, New York City. Owners, Post Radio Co., on premises. New store front and interior alterations.

Offices (alts.), 735 Federal street, Camden, N. J. Contract awarded F. C. Slocum, 33 Park avenue, Westmont, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Frank C. Probert, Smith-Austermuhl Bldg., Camden, N. J. General alterations, new partitions, linoleum floors, vapor heating system, plumbing. \$3,000.

Dormitory (alts. and add.), New Jersey State Hospital for Women, Greystone Park, N. J. Contract awarded C. J. Smith Construction Co., 202 Academy street, Trenton, N. J., \$68,169. Plumbing, Burns, Lane & Richardson, New Brunswick, N. J., \$4,187. Heating, Buist & Sons, New Brunswick, N. J., \$2,650. Electric, Standard Elec. Construction Co., Bayonne, N. J., \$1,597. Architects, Division of Architecture and Construction, Charles J. Leatham, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 2 stories and basement, 61x50 feet, slag roof, metal window guards, caulking, hollow metal doors, tile, marble, metal lath, excavation, reinforced concrete, waterproofing, dampproofing, cinder block, iron, alberne stone, door and window screens, painting.

Store and Garage, Chalfont and Pacific avenues, Atlantic City, N. J. Contract awarded P. G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, A. B. Richmond, Strand Hotel, Atlantic City, N. J. Brick, 1 story, 55x52 feet, electric work, plate glass, slag roof, cement floors, canvas deck, gas steam heat.

Bridges (2), New Jersey. Contracts awarded. Owners, State Highway Commission, A. Lee Grover, Secretary, Trenton, N. J.

Route 21, Sec. 5, across Second River, Belleville, Essex County. Thomas Gallo, 242 Madison avenue, Irvington, N. J., \$27,877.

Route SR1, Sec. 3, Kresson Lane, between Marlton and Berlin, N. J. E. A. Todd, Drexel Hill, Pa., \$11,081.

Miscellaneous Construction News

DuPont Building (add.), \$2,000,000. Cover site of Y. M. C. A. Building, Tenth and

Orange streets, Wilmington, Del. Work contemplated. Owners, E. I. DuPont & De Nemours & Co., DuPont Building, Wilmington, Del.

Church, Winnetka, Ill. Architect ready for bids in a month. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Winnetka Congregational Church, Winnetka, Ill.

Office, Warehouse and Bakery, Washington, D. C. Architects taking bids on heating due December 5th. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Sanitary Grocery Co., Washington, D. C.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 23, 1929.—Sealed Bids will be opened in this office at 3 p. m., January 6, 1930, for the demolition of old and the construction (except elevators) of new six story, basement and sub-basement stone faced, fire-proof, U. S. post office building, approximately 233 feet by 278 feet ground area, at Baltimore, Md. Drawing and specifications, not exceeding six sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit is made of \$50. for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

RATIONALIZING OUTPUT

By CHARLES F. ABBOTT

Executive Director, American Institute of Steel Construction, Inc.

Despite the progress made in management during the past few years, there are certain economic factors today which are confessedly disquieting. I refer in particular to the oft-claimed possibility that, by reason of the improvement of mass production, output may outstrip consumption. Seemingly that has at times happened, markets have been glutted with goods and the crisis passed temporarily merely by a judicious cutting of prices. Many of our business executives have been led to believe, because of this recurring phenomena, that there is a potential excess plant capacity constantly existing within their industries.

So long as we look at this problem from the point of view of the manufacturer we will forever be confronted with the spectra of market satiation and excess plant capacity. That, of course, is disquieting and justly caused considerable worry in the business world. If we are to remedy this situation, we must divert our planning from the problems of production and give some thought to the problems of market and the distribution of the goods we are manufacturing.

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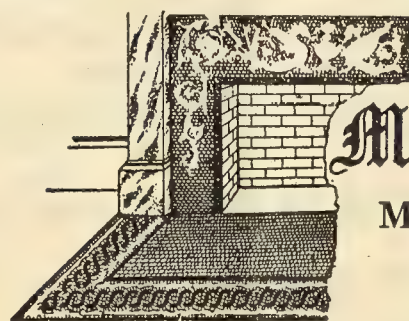
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We are at a stage of industrial development where it is much easier to produce than it is to sell that which we produce; it is easier to employ scientific management in the factory and eliminate production waste than it is to make a profit on our goods. Efficiency in plant production has reduced costs to the minimum, and therefore if relief is to be expected from the many perplexing problems it must come from similar attention devoted to the market and distribution methods.

The principal problem confronting most industries at the present time is that of the market. Consumption must be maintained on a basis equaling capacities to produce or production must be stabilized in keeping with ability to sell. There are instances where demand is declining or where it is impossible to increase it to any extent, and, under such conditions, diversified production or the development of new uses would offer the solution.

The textile industry diversified its production by producing rayon, while the iceman began to sell refrigerators, butter, eggs and cream, as electric refrigerators encroached upon his market. The coal man is soliciting orders for oil, and there are many other instances where diversification has been necessary to meet changing economic conditions.

In most cases, however, the application of research by an organized industry would undoubtedly develop new practical uses for the product and at the same time locate new opportunities for extending present markets. Steel plate floor construction, the use of steel in dams, in airports and hangars and in residences, all represent the result of concerted research

to locate and develop new uses for the structural steel industry.

When we suggest research for an industry we should not expect immediate results. It is no assured talisman, for results will depend upon how research is conducted. In order that it may be productive of good for the industry as a whole, it must be carried on by the industry, and not left to a single company. In that case the industry will profit through impartial investigation, while, when in the hands of a single corporation, the benefits must of necessity be selfishly applied and selfishly circumscribed. Research by joint action of an industry as a whole may reasonably be expected to promote the best interests of all—the industry as well as the public—and not that of a single company.

It is too bad that some money-making and money-saving methods are called "research." The word calls up visions of high-brow investigations by expensive experts. "Research" has a scientific sound. An ordinary business man is scared by it; in fact, he may think trade research is "theoretical" and academic. He turns impatiently from it to his rule of thumb practices—which sometimes lead him to the bankruptcy courts.

Research improperly applied may prove as great an industrial waste as any agency for waste business has ever experienced. Dr. Julius Klein, Assistant Secretary of Commerce, holds that between eight and ten billion dollars annually is chargeable to waste in the conduct of business in America. This waste about equalled the value of all our foreign trade in 1928. Waste occurs through excessive expendi-

tures in sales promotion, unwise credit methods, disorderly marketing, extravagant delivery services, ill-judged advertising, etc.

Inability of business executives fully to appreciate the problems of distribution, to have any known yard-stick whereby to measure market possibilities, lacking any scientific approach to the control of marketing costs, constitutes the basis of this present-day problem. The Federal Government has authorized the taking of a census of distribution. It will be the first time any real concerted action has been taken to measure the volume of our own domestic consumption. Without that measure we will continue to ship our goods to a market about which we have no exact knowledge.

Until now we have imagined that if goods refused to sell it was due to the fact that the price was too high, and our more powerful corporations would set about finding new means of reducing production costs. Since 1920 millions of dollars have been expended in modernizing the steel plants of the United States, reducing costs of production. But all those huge savings have been passed on to the public in the way of lower prices. All the potential profits have been dissipated by inefficient selling due to our inability to rationalize output.

We know for a certainty that our structural steel consumption might have been increased tremendously. As a matter of fact, it has been increased nearly three times in volume since the World War. It is possible today to increase it fifty per cent. more by properly promoting the markets which we know are possible. This would require greater concert in selling methods and a more scientific approach to the market problems, however.

Similarly, relief could undoubtedly be found for the other branches of the steel industry if proper attention were devoted to the exploitation of present markets, combined with the application of research to promote new uses.

One hears a good deal about the saturation point, where demand, like a loaded sponge, refuses to absorb further. But repeatedly the country has reached and passed what timid prophets thought was its utmost need for a given commodity.

To accomplish such a result it is essential for industry to recognize the vital need of co-operative advertising to the public in order to reinforce the activities of individual efforts. Advertising in the past has too frequently been considered either an item of expense or a contribution to editors to sustain cordial relations.

The idea of advertising as an investment from which very definite returns might be expected is not generally accepted by all in the steel industry. There has been some commendable effort where advertising campaigns by individual companies have been intelligently conceived

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and executed, but in nearly all instances they have been confined to trade advertising rather than to the public. The public have a definite influence when it comes to the use of steel or any other materials. In the last analysis the public decide whether steel or some other materials will be used. Their influence and approval in the development and exploitation of markets is of outstanding importance. To disregard public opinion is to neglect the only influence that can make possible increased consumption. In these days of economic changes advertising is recognized as the principal power to be utilized in solving disturbing problems.

I am not alone in holding to this conviction. It has been estimated that advertising appropriations during 1929 exceed by 20 per cent. those of 1928. That would seem to prove conclusively that most business men consider advertising important. It is important just to preserve the present market of an industry, for without adequate advertising substitute materials would soon nibble away at the market an industry justly occupies.

Today the steel industry is confronted by competition from the producers of copper, aluminum and other substitute products. Only because manufacturers outside the steel industry and on their own initiative have constantly been discovering new uses for steel has it been possible for the steel producers to continue enjoying an expanding market, yet blind to their full opportunities. That is why we find today some who still refuse to believe that the advertising of steel would either prove practicable or that it is necessary. This belief is inspired by production minds, minds which are ignorant of the benefits of rationalized output.

In the past there has been little need for the exercise of selling effort, for the only problem was to produce the steel to meet voluntary demand. But today we are beginning to see changed conditions, where demand must be stimulated if production schedules are to be maintained. The reason we hear so much about excess plant capacity is due to the fact we have neglected to apply a scientific study to our market problems.

To permit continued excess plant capacities through failure to develop markets forces a scramble for business at cost, or less than cost, to fill existing plants. Not infrequently business is taken merely to keep plants running. Increased consumption and the development of new uses would remove the excess plant evil. As consumption increases, prices and profits should advance and prosperity become a realization.

Mass production is predicated upon constant production, and it is expensive if the operation is halted or stopped. Under such a system it not infrequently happens that 50 per cent. of the cost of an article is due to plant stoppage, for that

cost continues no matter whether the plant is in operation or not. That is why a plant is often encouraged to sell its output at a loss. It is that much more reason why we should take steps to cut those losses before they start, to appraise most carefully the absorptive capacity of the market for the article produced. If the planning is done correctly we can avoid the loss and insure the plant of continuous operation when keyed to meet the demand and not to exceed it.

There are some companies still left which insist upon taking larger orders before it is realized that they are worth about as much as zero with the rim ripped off. It is difficult for such a management to admit that a million times nothing is still nothing. But with them the weeks will accumulate into months, and the months into years, while they are trying to find the profit from jobs sold at cost. If we are going to continue to put steel in great skyscrapers or bridges and pay for the privilege of doing so, then why would it not be better to go into the peanut business, where we could get some real money for the peanuts we raised. The big distributors of cigarettes are today trying to find their profits in the sale of sandwiches. Their distress should give many of us food for thought.

If we are going to reduce the level of selling steel to a mere bidding at auction for every job that comes on the market, then we must measure success by those who buy the greatest number of concessions and to whom we sell what we have bought.

The price cutter of today writes the whole story on the price tag of tomorrow. The individual who insists upon price cutting as a means of obtaining his business is worse than a criminal. He is a fool. He not only pulls down the standing of his company,—he not only pulls down his competitors,—he pulls down himself and his whole industry. He scuttles the ship on which he himself is afloat.

It is easy to cut a price, but it is difficult to reconstruct the price structure after it has once been pulled down. The constant lowering of prices is an endless process; it lowers us into a hole, the bottom of which has never been reached. The price cutter may be low today, but his competitor will see to it that he is not low enough tomorrow. In this downward trend of prices there comes a time when the selling prices are below the cost of production, profits are dissipated and business is being transacted at a loss. In this wild scramble for volume, industry must learn that distress lurks just ahead, and the only remedy lies in the rationalizing of output.

The large corporation, because of its supposedly vaster resources, cannot expect to win at such a game. Whenever

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the selling structure is lowered so that it focuses attention upon nothing but price, the large corporation is at a serious disadvantage, because the small company has the ability to maintain personal contact with customers, which is the balance of power often swinging the contract. That intimate contact, offering a specialized service, which a small concern holds out to customers, is a very tangible advantage held over the big, unwieldy corporation.

If pressure is constantly applied to maintain consumption in line with production, then most of our difficulties might disappear. That is, of course, assuming we could check the desires of the ambitious producers from adding unduly to their plant capacities. There are, however, those who are obsessed with the idea that they are privileged and that they alone are entitled to keep growing.

Congress has authorized a census of distribution. Unconsciously that gives official sanction to a new science, the science of rationing output to consumption. We have been awakened to the necessity of putting a curb on selfishness and of ridding industry generally of the tremendous wastes in marketing produce. The day is rapidly approaching when we have every reason to expect to have a rationalization of output to consumption. We are only beginning to discover means of measuring the volume of the market potentiality. We have yet to develop that method of regulating production to consumption capacity. When we reach that point we will have devised a scientific rationalizing of output.

Industry exists to serve mankind. Only insofar as it is successful in serving mankind will it make a profit for the persons who run it. But there is no service to mankind in flooding the market with duplications of goods which can never be consumed profitably. We not only depress the profits of the producers, but

also depress the value of that part of the production which has already been passed on to consumers and which consumers hold in their capital investments.

Over-production not only invites bankruptcy for the industry over-producing, but also encourages bankruptcy among those who consume the output of that industry. And bankruptcy is one of the greatest industrial wastes that we have to contend with today.

Modern statesmanship must take this fact into consideration. In preaching the merits of rationalized output, we are but preaching a better industrial life, we are merely encouraging some kind of a uniformity of success and pointing the way to the removal of waste.

We have the merits of cost accounting hurled at us from time to time. There is a good deal of truth in the claim that producers should know their costs if they would do business on a successful basis. That is axiomatic, but it goes only half the way—knowing our costs is but the first step. The second is to know our market. But even assuming that we know both, it is of little avail unless we act upon the information that has been given us. We must rationalize the output. We must equal production with consumption, and thereby do away with periodic slumps, unemployment and reduced buying power.

Stabilized production would do more to improve prices and profits, to eliminate destructive forms of competition than any other influence that can be brought to bear. It is the key to greater prosperity, and the market is the direct approach through which research, advertising and educational promotional effort would complete the answer.

No industry, however, has a right to assume a necessity for rationing output until it is definitely determined that it has satiated its market. For instance, it has been claimed that the automobile manu-

facturers consume ninety-five per cent. of the drop forgings made in this country. Does this measure the extent of that market? Is it not possible for the drop forging industry to find an even broader market? That, of course, we do not know until the forging people themselves have made a better analysis of their possibilities, and taken their census of potential as well as actual distribution.

It is not infrequently the case that the small companies in an industry are more alert at discovering new outlets for their product than are the big, unwieldy corporations. We speak of research in a rather general way. But research may be just as successful in the market-place as in the laboratory. Often the opportunities of research are laying beneath our noses unnoticed, and that is what makes business opportunities so plentiful, and why it is always unwise to depreciate the efforts of even the smallest competitor. In co-operative effort we profit by bearing each other's burdens as well as in sharing each other's benefits.

The opportunities for one company to help another, for co-operation between so-called competitive units, are legion. The truth of that may be easily recognized in the matter of developing new markets, but it is equally true in this more important endeavor to rationalize output. Co-operation in industry, as it is being effected today under the supervision of the Federal Government, does not mean price maintenance. We are forbidden to advise competitors on selling prices, but, on the other hand, we might feasibly advise each other as to expansion of productive capacity. There is where co-operation can be effectual and economically advantageous to the whole country.

Excess and idle capacity represents a loss of time and energy involved in its creation. The public which buys the output of the active portion of an industry are compelled to pay the carrying charges for the idle portion. The system is economically unsound.

It is, of course, only by an adjustment of supply to demand that prices can be stabilized or maintained at a profitable level under a system of competition. Oil producers recognize this. Indeed, it is the inspiration of the effort now being made to bring about a better control of oil output.

It is certainly the part of wisdom in this country to have our resources of oil, copper or other basic commodity judiciously used, rather than to make them very cheap at one moment with widespread waste, and their application to uses for which some other material would be preferable.

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iron ore is not inexhaustible. Experts have ventured to estimate when these ore supplies will be exhausted. It would seem, therefore, that the conservation of our iron ore deposits would be a problem worthy of consideration, and, in the meantime, iron and steel products should command prices more in keeping with their intrinsic values. Otherwise our immediate profits are unreal, as they make no provision for the future.

Every business enterprise is a public service undertaking. It can make good and should be allowed to exist, only about in proportion as it recognizes the public character of the function it is performing. One of these functions is that of treating its customers alike, relieving them of the necessity of bargaining, and thus allowing them to exert their full economic strength in other and more economical directions. Every business unit owes it as a duty to the public to observe an uniformity of prices and an uniformity of treatment of customers. When there is need for a change in prices or a change in production schedules, that change should be made upon an uniform basis, giving full publicity to the reasons which prompt such change.

It is the duty of business to preserve its economic freedom by cleaning up archaic practices instead of waiting for an aroused public opinion to call upon the Government for drastic regulation. Failure to obey the warning threatens us with State socialism, for when the consuming public is conscious of the fact that private business operates in a wasteful way, it will demand public control of business. A rationalization of output therefore is not advocated solely for the benefit of private ownership, but only after a mature consideration of our solemn responsibilities.

At this moment we know that the Government is willing to assist us to achieve these reasonable endeavors. If the Government is willing to assist in the elimination of unfair methods of competition, then why should a small minority of business men oppose the constructive assistance that the Government is willing to extend?

We cannot expect industrial prosperity unless all industry is prosperous. Society, with labor included, is advanced when industry prospers, and both suffer when operations continue without a reasonable profit. Destructive methods that are prevalent in many industries dissipate the profits as price-cutting and selfishness place business at any price ahead of all other motives.

Codes of Selling Practice, as encouraged by the Federal Trade Commission, will go a long way toward removing the destructive, unfair methods, and thereby create better competitive relations. The only objection that can be offered in opposition to the adoption of a Code of

Selling Practice is a desire to continue the destructive measures as already operative. If left to individual action, the spirit of selfishness cannot be controlled, jealousies and suspicions will continue and methods go from bad to worse. The only practical solution is to place all reliance upon organized co-operative action supported by the wholesome influence of the Federal Government.

There is very good reason why some 13,000 trade associations have come into existence in this country. We are forced to admit that there is merit in co-operative activities. The good that has resulted is the merest beginning. Once realizing that this good may be shared with the public in general as well as by the individual units of an industry, we may confidently expect co-operative efforts to advance rapidly and with Government sanction. If we are to attain any measure of rationalized output, it will be through these co-operative agencies.

WINTER WINDOWS NEED WEATHERSTRIPPING

By JOHN WORTH

As cold weather once more comes on, the need for well weatherstripped windows becomes more apparent, and while this work should no doubt have been done much earlier in the season, it may not yet be too late to obtain business of this kind with the proper arguments.

It may be well to list briefly right at the start the major argument used to show the value of proper weatherstripping. Some of the important ones include:

1. Engineering tests have shown that twenty to forty per cent., depending on varying conditions, of the heating expense of a home can be saved by weatherstripping doors and windows.

2. Weatherstripping keeps out cold drafts, dust, soot, rain and snow. It is a valuable feature to the housewife, who is more able to keep the home clean and prevent dirtying of curtains, drapes, and wall coverings.

3. It keeps the heat in as well as the cold out.

4. Weatherstripping makes windows slide easily even while weather-tight. No matter how efficient a builder may be, it is difficult to leave a window that is weather-tight loose enough for easy operation.

5. Weatherstripping stops the rattling of windows, which is an important feature. It also helps deaden noises occurring outside.

These are some of the chief arguments for weatherstripping, but standing far ahead of all the rest is the matter of heat loss. A little mathematics may be employed to prove this fact. Cracks between the frames and sashes of double-hung wood windows may vary in width from 1/64 to 1/4 inch. For the sake of this example, let us take 1/16 inch as an average.

Multiplying 1/16 inch by 216 inches, the distance around an average window, gives 13 1/2 square inches. That is, the cracks around a window are equivalent to a hole 13 1/2 inches square. It is obvious that this means a large heat loss.

Another startling example of the heat losses in an ordinary room due to leaky windows can be shown through consideration of the living room.

Effect of Various Winds

Tests of the American Society of Heating and Ventilating Engineers show that with an assumed wind velocity of five miles an hour, a wind that is hardly noticeable, there will blow into this room through the north windows alone, in one hour, almost enough air at zero temperature to fill the room entirely. At least 15

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square feet of radiation will be necessary to heat this air to 70 degrees.

With a 10-mile wind the infiltration will be 6,535 cubic feet, and 35 square feet of radiation will be needed. Increasing the wind velocity to 20 miles an hour brings the infiltration to almost four times the volume of the air and the radiation to 61 square feet.

If we consider a 30-mile wind—no stranger during the bitter cold of December and January—the leakage through this one window will change the air in the living room every 11 minutes. Under these conditions heat would have to flow continuously from a huge radiator—100 square feet—to heat the incoming air, and coal would have to be burned at the rate of 3 pounds per hour, or nearly 75 pounds per day.

In the poorly-built home there is a constant drafty circulation of air that keeps expensive heat flowing from the house.

A wind blowing on the north side of the house causes an inflow of cold air, which is accompanied at the same time by an outflow from windows on the opposite side of the house. It can be very well shown that if three sides of the room are well weatherstripped, leakage on the fourth side will be negligible.

The modern types of weatherstrips, whether made of zinc, bronze, brass, copper or similar metals, usually work on either one of two principles. The first is the contact or spring principle, typified by spring bronze strips, and the second is the tongue-in-groove.

One reason why practically all windows need weatherstripping, especially when made of wood, is that absorption of moisture causes warping, swelling and shrinking. The properly installed weatherstripping will protect this area left by the warping of the window.

The fact that weatherstripping can easily pay for itself may be determined by simple computation. According to the figures of the American Society of Heating and Ventilating Engineers, wind velocity in New York and vicinity during the three months of December, January and February is 13.3 miles. At this velocity the square feet of radiation required to take care of the loss due to infiltration through one linear foot of crack is 0.65. If the window were weatherstripped, the corresponding radiation requirements would be .12 square feet, showing a saving of .63 square feet of radiation.

Saving Is Almost Enough to Pay Cost

A fair estimate of cost for a heating system would be \$2.00 per square feet of installed radiation and the saving effected through weatherstripping can safely be taken as one-half of this, or \$1.00. As the weatherstrip probably could be put on for less than 50 cents a foot, there is no question that the installation is good business.

On the basis of yearly saving, if a 5,300 degree-day heating load is used, we will find a requirement of about 70 pounds of coal per square foot of radiation per heating season. At \$16 per ton,

the annual saving due to weatherstripping will be about 30 cents, or almost enough to pay for it.

It must be remembered that the best types of weatherstripping, if carelessly applied, may fall short of providing the immunity from heat loss claimed. Good weatherstripping well installed should last as long as the house in which it is placed. The technique of application, however, is of as great importance as the excellence of design or quality of material.

Inside Pressures

An interesting fact is brought out in connection with heat losses by Professor Emswiler, of the University of Michigan, who made a study of this subject. He points out that even without any wind, a difference of temperature inside and outside will cause loss. This is because the pressure inside is less than that outside at the ground and greater near the roof, so that inflow will occur at lower windows and outflow at upper windows. If the building is small and open throughout from bottom to top this difference in pressure may result in greater movement of air.

A wide variety of weatherstripping materials are available on the market and they offer suitable equipment for windows and doors. The tendency to make use of these products is greatly on the increase, due to the fact that these tests have so clearly demonstrated the actual money value of the installation. It is entirely possible in the construction of a small house, to spend \$500 for insulation and weatherstripping and save \$300 to \$400 right at the start in the cost of the heating plant. In addition to this, the well weatherstripped house is more comfortable in both summer and winter, and is thus a better investment for anyone.

Many builders who very thoroughly equip and build their house, including valuable modern features, neglect to make proper use of these features in their selling arguments. This is true in the case of weatherstripping. The casual observers will completely pass by the values here

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A Sales Asset

A number of plans have been developed and tried by various home builders. Placards on the outside may announce the fact, and such advertising may usually be obtained free from manufacturers.

One of the best methods is the use of neat, well-printed cards inside the house when it is on display, or awaiting sale. These cards are lightly pinned to the wall or woodwork near the window and connected by colored string or ribbon to the point nearest the weatherstripping. They call attention to this special equipment.—*Building Age*.

COLONIAL HOUSE GIVES CHARM

Not alone did the Pilgrims lay the foundation for American civilization by leaving behind them a trend for truth, zeal, and sturdiness that have been the sinews of this country, but they have given to the aesthetic home lover, ascetic though they were, through their quaint American style of furnishing, a joy that can be derived from no other mode.

For there is a certain charm in the Colonial style that no other furnishings achieve. Perhaps it is the simplicity, perhaps it is the lovely woods, perhaps it is the eventful past it signifies and which is so close to American hearts. It calls to mind persevering Pilgrim fathers; trim, precise Colonial dames, and hoop-skirted, dainty misses.

It is a cleverly modern home that borrows its furnishings from the past and captures old-time charm, and no scheme does this more completely than the early American. For there is an atmosphere about Colonial rooms that is as suggestive as a whiff of lavender, and quaint as the times

they represent, yet made comfortable with modern workmanship while closely following the finest and truest of Colonial designs.

In each home there should be at least one room furnished in the early American spirit; for there is a subtle suggestion of peace, rest and friendliness accompanying the charm of such furnishings. And while these are characteristics that each room should possess, perhaps the bedroom more than any of the others. The dainty four-poster bed, the powder table that fairly invites vanity, gay hooked rugs and frilly, flowery curtains, together with chests and high-boys, make a room of simple, lovely contentment.

And except to him who demands the real antique, Colonial furniture has comfort as well as charm. The early Pilgrims not only landed on a stern and rock-bound coast, but they made their furniture that way as well. They were also content to sit on Sunday in hard wooden, straight-backed pews in church.

And to carry out the ensemble of the Colonial room, machine-made hooked rugs and carpets are available in quaint patterns if one does not care to invest in the original hand-made ones. And there are pewter lamps, and table and floor lamps in quaint design, true in style except that they are wired for electricity in place of the original wick and oil. Such things allow one to carry out the Colonial atmosphere in the room to the best detail.—*East Bay Builder*.

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The big influence naturally is cost. From year to year construction is becoming more expensive. And the more expensive it becomes the longer we will want it to last. This will apply to our homes as much as to our business blocks and public buildings. For in the finality it is the taxpayers, and that's us, who pay the construction bills.

Some of them, of course, we pass along to posterity in the form of bond issues. And while few of us worry about what our great-great-grandchildren will think of us for handing them such a lot of gold-bricks, we would prefer to have the buildings outlive the bonds.

By the same token we are beginning to be more concerned about the life of the house we build. It may be about the only thing we will pass along when we snuff out, and we have an excusable human interest in desiring it to reflect our good judgment.

Something of the same spirit animated the builders of those rare old brick houses of the Colonial period still to be found, cherished for both their memories and their worth, in New England, New York, Eastern Pennsylvania, Maryland, Virginia and the Carolinas, rich in beauty and historic interest.

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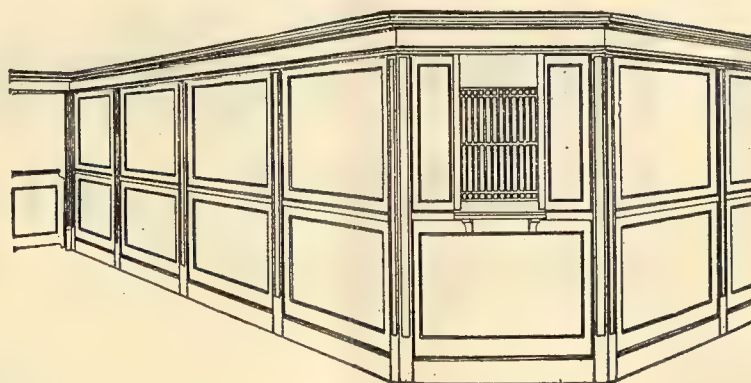
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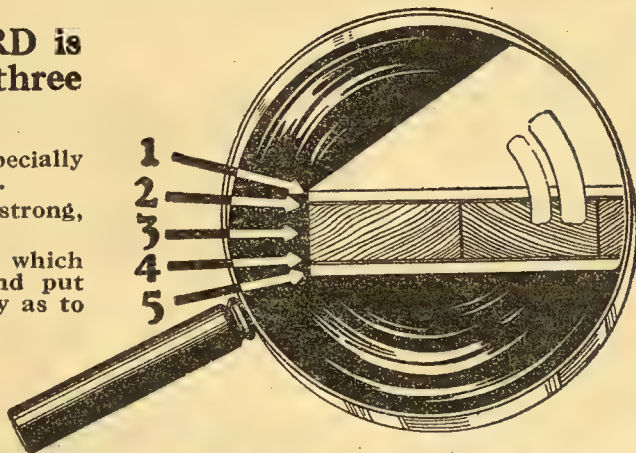
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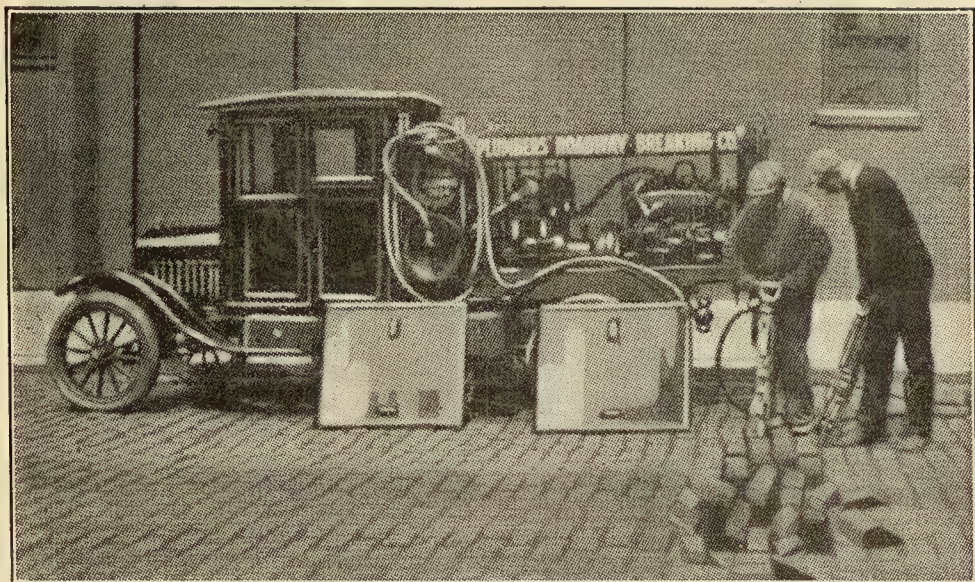
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VOLUME XLIV
Number 50

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December 11, 1929

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

New Parish Group, \$400,000. Philadelphia. Site not selected. Work contemplated. Owners, Philadelphia Episcopal Diocese, care of Bishop Thomas J. Garland, 202 South Nineteenth street, Philadelphia.

Church, Chestnut Hill, Pa. Work contemplated. Charter granted. Architect, not selected. Owners, Presbyterian Church of Chestnut Hill, Co-ordinate Pastors, Rev. C. C. Tyler, Trinity Presbyterian Church; Rev. William C. Lee, First Presbyterian Church, Chestnut Hill, Philadelphia.

Apartment House, \$1,000,000. 1607-11 North Broad street, Philadelphia. Selection of architect to be made in a week. Architect, not selected. Owner, care of Ralph R. Zane & Co., Broad and South Penn Square, Philadelphia. 12 stories, 77x155 feet, brick and steel.

Store (alts.), 522 Market street, Philadelphia. Plans completed. Architect ready for bids in few days. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, I. Gross & Co., on premises. New bulk, 40x14 feet, interior alterations, plumbing and heating.

Park Entrance, Woodside Park, Philadelphia. Plans about completed. Ready for bids in a few days. Architect, Edwin Schoeppe, 1601 Spruce street, Philadelphia. Owners, Woodside Real Estate Co., on premises. Stucco front, Spanish tile, collapsible gate, cement work, 25 feet long, 24 feet high, 4 feet deep.

Store Building, 1316 Chestnut street, Philadelphia. Architects will take bids in few days. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Own-

ers, Lerner Stores Corporation, 352 Fourth avenue, New York City. Brick, limestone, steel, granite, 4 stories and basement, 22x150 feet.

Store Building, 1720-22-24 Chestnut street, Philadelphia. Architects ready for bids in few days. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owners, Winkelman Brothers, Heyman Building, Philadelphia. Brick, limestone, steel, 3 stories.

Nurses' Home, Fiftieth and Woodland avenue, Philadelphia. Ready for bids in a few days. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Mercy Hospital, on premises. Brick and stone, 3 stories.

Building (alts.), Bulkhead and Loading Station, Thirty-sixth and Reed streets and Schuylkill River. Owners will be ready for bids January 1st. Architect, private plans. Owners, Shell Eastern Petroleum Products Co., care of C. Watts, Elverson Building, Philadelphia. Alterations to old Philadelphia Rubber Company plant.

Church and Sunday School, Northwest Corner Pulaski and Winona avenue, Philadelphia. Ready for bids in one month. Architects, C. W. Bolton & Son, 1505 Race street, Philadelphia. Owners, West Side Presbyterian Church, Rev. W. P. Lee, 5516 Morris street; J. T. Craig, Chairman, Wayne avenue and Reading Railroad, Philadelphia, Pa.

Store Building (alts.), Southwest Corner Sixty-ninth and Ludlow streets, Philadelphia. Charles S. Barnett, Inc., 4700 Springfield avenue, Philadelphia, taking sub-bids due as soon as possible. Architects, Thalheimer & Weitz,

10 South Eighteenth street, Philadelphia. Owners, Lerner Stores, Inc., 352 Fourth avenue, New York City. Slag roof, electric work, terrazzo work, cast stone, plate glass, painting, plastering.

Cattle Building, Thirty-sixth and Gray's Ferry avenue, Philadelphia. Owners ready for bids in 3 weeks. Architects, C. B. Combstock, 122 East Forty-second street, New York City, and William Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, E. B. Temple, Chief Engineer, Broad Street Station, Philadelphia. Reinforced concrete, 1 story.

Residences (30), Guyer avenue, Southeast side Seventy-second and Seventy-third streets, Philadelphia. Owners will build. Architect, private plans. Owners, Goldstein Brothers, Yeadon, Pa. Brick, 2 stories, 15x40 feet, hot water heat, slag roof, oak and yellow pine floors, electric light.

Theatre, 8 Stores, 15 Offices, Restaurant and Dance Hall, North side Allegheny ave., East of Kensington ave., Phila. Architects taking bids due December 20th. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owner, Samuel Shapiro, 1218 Chestnut street, Philadelphia. Brick, steel and concrete, 1 story and balcony, 255x155 feet, concrete floors, demolition.

Residences (4) and Garages, 5721-23-25-27 Cherry street, Philadelphia. Charles W. Clemens, 1119 North Sixty-fifth street, Philadelphia, will build and is ready for sub-bids. Architect, Thomas J. Early, Harrison Building, Philadelphia. Owner, James Dougherty, care of builder. Brick, 2 stories, 15x26 feet, hot

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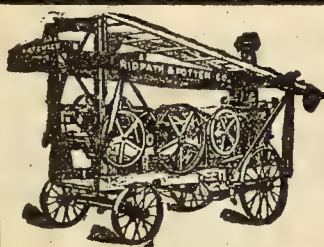
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Apartment House and Garage, Sedgwick and Emlen streets, Philadelphia. Owner taking sub-bids due as soon as possible. Architects, Stetler & Deysher, 709 Chestnut street, Philadelphia. Owner, Elmer Hampton, 6506 North Eighth street, Philadelphia. Brick, steel, 8 stories and basement, 50x94 feet, slag roof, hardwood floors, vapor heat, electric light, tile work, reinforced concrete, linoleum floors, kitchen and laundry equipment, vapor heat, tile, marble work, oil burners, electric light, kalamein doors, refrigeration, incinerators, elevators, galvanized iron work, plate glass, weather stripping.

Remodeling and Alterations, United States Post Office and Court House, Philadelphia, Pa. Owners taking bids due December 12th, 2 P. M. Architect, private plans. Owners, United States Government, Treasury Department, Washington, D. C. (Remodeling Rooms 504-506, entrance vestibule.) Specifications may be obtained from Custodian only. J. S. MacLaughlin, Custodian, on premises.

Buildings (3), Erie avenue and "M" street, Philadelphia. Architect taking bids due December 12th. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Bachman Brothers, 609 Commerce street, Philadelphia. Reinforced concrete, steel, excavation, stone masonry, granite sills, caulking, iron work, scuppers, ventilators, ventilouvers, cyclone fence, steel sash, hollow metal sash, screens, Carey built-up roof, concrete and gypsum roof deck, sheet metal work, rolled steel skylights, metal partitions, metal toilet partitions, tin-clad and kalamein doors, corrugated iron garage, 100x16 feet, 1 story, plastering, painting, glazing, terrazzo work, linoleum floors, bath cabinets, integral waterproofing, hollow tile, terra cotta copings, carpentry and mill work, oak floors, steam heating, plumbing, electric work, sprinklers, boilers, 100x210 feet, 2 stories and basement, 40x30 feet, 1 story. (Steel tanks and hardware reserved.)

Bank (alts.), \$120,000. Southeast Corner Girard and Franklin street, Philadelphia. Permit issued. Architects, Tilghman-Moyer Co., Allentown, Pa. Owners, National Security Bank & Trust Co., on premises. General alterations.

Gas Station, \$4,000. Northwest Corner Twenty-seventh and Diamond streets, Philadelphia. Permit issued. Architect, private plans. Owners, Tidewater Oil Co., Forty-seventh and Gray's avenue, Philadelphia. Brick, 1 story, 15x59 feet, slag roof, cement floors, electric work.

Stores (5), \$25,000. West side Greene street, North of Hortter street, Philadelphia. Permit issued. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, David I. Mann, 432 Hortter street, Philadelphia. Brick, 1 story, 16x50 feet, slag roof, electric light.

Warehouse (add.), \$15,000. 217 North Thirtieth street, Philadelphia. Permit issued. Owners, Keystone Index Card Co., 3223 Race

street, Philadelphia. Brick, second story add., 50x175 feet.

Department of Supplies and Purchases, Room 302, City Hall Annex, Philadelphia, taking bids due December 16th, noon. Furnishing steel lockers, safe cabinets and steel poles. Bids opened Room 305. Owners, Department of Supplies, Room 305, City Hall Annex, Philadelphia. D. J. Hoban, Assistant Director, City Hall Annex, Philadelphia.

Post Office (alts.), Ninth and Market streets, Philadelphia. Low bidders. Architect, James A. Wetmore, United States Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Mezzanine floor in the Ninth Street Lobby. Schaeffer & Co., 1600 Arch street, Philadelphia, \$12,385; A. S. Shafer, 5733 Ogontz avenue, Philadelphia, \$13,586.

Miscellaneous Road Work, Philadelphia, Pa. Low bidders. Owners, Department of Public Works, Bureau of Engineers and Surveys, 913 City Hall Annex, Philadelphia. Branch sewer, Lena street, from Church Lane to Coulter street, Philadelphia, Ernest Ventresco, 6016 Ross street, Philadelphia, \$10,636. Tabor street, from Tacony Creek to Marwood road, Ernest Ventresco, 6016 Ross street, Philadelphia, \$9,340. Test borings by water jet, John E. Robinson, 5231 Catharine street, Philadelphia, \$4,150. Sewage disposal project, J. T. McDonnell, 2313 South Front street, Philadelphia, \$28,057.50. Improvement of Southeast Sidewalk of Frankford avenue, from Northeast of Foust street to Comly street, Philadelphia, Curtis Brothers, State road and Unruh street, Philadelphia, \$1,530.

Church, vicinity of Cheltenham avenue and 20th street, Philadelphia. Work contemplated. Owner, Protestant Episcopal Church, care Bishop Thos. J. Garland, 202 South 19th st., Philadelphia, Pa.

Post Office Building, 2900-2950 Market st., to Chestnut st., Philadelphia. \$8,000,000. Site selected. Plans to be started in 3 weeks. Architect, Jas. A. Wetmore, Treasury Bldg., Washington, D. C. Owner, U. S. Government, Treasury Dept., Washington, D. C. Lime stone, steel, 4 stories and basement, 500,000 square feet.

Supplies, etc., Philadelphia, Pa. Owner taking bids due December 17th, 10 A. M. Owner, Bureau of Supplies and Accounts, Navy Dept., Washington, D. C. Furnishing electric motors, soot blowers, forced draft blowers, aluminum chairs, lumber. For proposals apply to J. J. Cheatham, Paymaster General of the Navy, or at Navy Yard, Philadelphia.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., December 4, 1929. Sealed bids will be opened in this office at 3 p. m., January 2, 1930, for remodeling and enlarging the U. S. post office at Bridgeton, N. J. Drawings and specifications may be obtained from the custodian of the building, or at this office in the discretion of the supervising architect. JAS. A. WETMORE, Acting Supervising Architect.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building, Hunting Park avenue and McMichael street, Philadelphia. Contract awarded Turner Construction Co., 1700 Walnut street, Philadelphia. Architects, F. S. Fox Co., Engineer, 2801 Hunting Park avenue, Philadelphia. Owners, Tasty Baking Co., 2801 Hunting Park avenue, Philadelphia. Brick, reinforced concrete, 6 stories and basement, 60x110 feet, steam heat, electric light, slag roof, concrete roof deck, cement floors, elevators, excavation, iron work, mill work, steel sash, sheet metal work, metal lath, plastering, cold water painting, fire doors, rolling steel shutters, elevator doors, brick floors, plumbing. (Sprinkler system reserved by owner.)

Store Building, Northeast Corner Nineteenth and Chestnut streets, Philadelphia. Contract awarded H. M. Shandles, 617 Pine street, Philadelphia. Architects, Silverman & Levy, Thirteenth and Chestnut streets, Philadelphia. Owner, David H. Cohen, 1211 Chestnut street, Philadelphia. Brick, limestone, steel, 2 stories and basement, 40x100 feet, metal lath, tile, bond, ornamental iron work, slag roof, yellow pine and cement floors.

Reconstruction Shipways, Navy Yard, Philadelphia, Pa. Contract awarded Van Asdlen Construction Co., 1600 Arch street, Philadelphia, Pa., \$227,883. Architect, private plans. Owners, Bureau of Yards and Docks, Navy Department, Washington, D. C. Reconstruction of shipways, reconcrete shipbuilding ways, 604x100 feet.

Fire Stations (alts. and improvements), 3025 Gray's Ferry avenue, and Seventh street, above Carpenter street, Philadelphia. Contract awarded John Devlin, Jr., Hancock and Thompson streets, Philadelphia, Pa. Architect, William S. Covell, 1022 City Hall Annex, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, Bureau of Fire, City Hall Annex, Philadelphia.

Bulk Terminal, Warehouse, Garage and Office, Luzerne and "I" streets, Philadelphia. Contract awarded L. Rieco & Co., 318 Summit avenue, Willow Grove, Pa. Architect, private plans. Owners, Shell Eastern Petroleum Products Co., Mr. Watts, Elverson Building, Philadelphia. Stone, tile, 1 story, slag roof, cement and linoleum floors, warehouse 60x30 feet, 1 story, garage and office, 1 story, 149x32 feet.

Service Station, Lancaster avenue, between Sixtieth and Sixty-first streets, Philadelphia. Contract awarded I. S. Grindrod, 10 South

Eighteenth street, Philadelphia. Architect, private plans. Owners, Vacuum Oil Co., Mitten Building, Philadelphia. Brick, 1 story, 18x23 feet, electric light, tile roof, cement floors.

Addition, Seventh and Tabor road, Philadelphia. Contract awarded Franklin M. Harris, 1520 Parrish street, Philadelphia. Architects, Simon & Simon, Fidelity-Philadelphia Building, Philadelphia. Owners, Procter & Schwartz, on premises. Brick, 1 story, 22x26 feet, slag roof, cement floors, bond, ornamental iron work.

Bakery (repairs), \$4,000. 3911-15 Cambridge street, Philadelphia. Contract awarded P. Savar, 718 Snyder avenue, Philadelphia. Architect, private plans. Owner, J. J. Lipkin, on premises. General fire repairs.

Store and Apartment (alts.), \$6,000. Southeast Corner Harrison and Oakland streets, Philadelphia. Contract awarded Rush Brothers, 4682 Darrah street, Philadelphia. Owner, Harry C. Zeizig, on premises. General alterations.

Stable (alts.), \$2,000. 1510-18 North Orkney street, Philadelphia. Contract awarded A. Raymond Raff Co., 1635 West Thompson street. Owners, Estate of Daniel Buck, 1505 North Fifth street, Philadelphia. General alterations.

Storage Building, \$3,500. West side Thirtieth street, North of Race street, Philadelphia. Contract awarded Martin Steel Products Co., care of owners. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Steel and iron, 1 story, 18x117 feet.

Store and Residence (alts.), \$2,000. 2457 Kensington avenue, Philadelphia. Contract awarded Frank I. Wintz, Inc., 1618 North Twenty-seventh street, Philadelphia. Architect, private plans. Owner, John Keeney, on premises. General alterations.

Residence and Store (alts.), \$2,000. 2163 Ridge avenue, Philadelphia. Contract awarded Herman Geichner, 1322 North Twenty-eighth street, Philadelphia. Architect, private plans. Owner, William Shore, Southeast Corner Twenty-second and Nicholas streets, Philadelphia. General alterations.

Residences (2), \$7,000 total. South side Buist avenue, West of Seventy-seventh street, Philadelphia. Contract awarded H. E. Dean, 7701 Buist avenue, Philadelphia. Owner, Mrs. Rose Pratt, 7716 Buist avenue, Philadelphia. Brick, 2 stories, 14x38 feet, hot water heat,

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Office (alts.), Fourth and Market streets, Philadelphia, \$6,000. Contract awarded F. L. Hoover & Sons, 1023 Cherry street, Philadelphia. Owners, Philadelphia Bourse, on premises. General alterations.

Chimney, Nineteenth street and Wayne avenue, Philadelphia. \$4,336. Contract awarded Alphons Castodis Chimney Co., Bulletin Building, Philadelphia. Owners, Reading Company, 12th and Market streets, Phila.

Residence (alts.), 2600-02 Wharton street, Philadelphia. \$3,000. Contract awarded Basch & Co., Inc., Ruan and Tackawanna sts., Philadelphia. Owners, J. Bracken, 2711 Reed street, Philadelphia. General alterations.

Pennsylvania Construction News

Junior High School (first unit), \$30,000. Upper Providence Township, Montgomery County, Pa. Architect selected. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Upper Providence Township School Board, David Rittenhouse, President, Royersford, R. F. D., Pa. Fire-proof construction, 4 rooms. Too early for details.

Manufacturing Building, between Shady Run and Righter street, on Reading Railroad, Conshohocken, Pa. Work contemplated spring

of 1930. Architect, private plans. Owners, Reilly-Whiteman Co., P. F. Reilly, President. Conshohocken, Pa. Brick, steel, 2 stories, 160x80 feet.

Factory (add.), Morrisville, Pa. Work contemplated in spring of 1930. Architect, private plans. Owners, Robertson Art Tile Co., Morrisville, Pa. Brick, 1 story.

Fire House, \$12,000. Derry and Elm streets, Paxtang, Dauphin County, Pa. Work contemplated. Owners, Paxtang Fire Company, C. T. Lampas, President, Paxtang, Pa. Too early for details.

Bridge, \$125,730. Mountville, Lancaster County, Pa. Plans in progress. Engineer, County Engineer, Lancaster, Pa. Owners, Lancaster County Commissioners, Court House, Lancaster, Pa. Steel girder, 30 feet wide.

Church, School and Rectory, Easton Pike and Washington avenue, Bethlehem, Pa. Work contemplated. Architect, not yet selected. Owners, St. Anne's Roman Catholic Church, Rev. Joseph Mooney, Bethlehem, Pa. Size of lot 400x400 feet.

Hotel, Mt. Pocono, Pa. Preliminary plans in progress. Architects, Charles R. Peddle, Simon Wasserman, 136 South Fourth street, Philadelphia. Owner, name withheld. 4 and 5 stories, 60 rooms.

School Building, Swarthmore, Pa. Preliminary plans in progress. Too early for details. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Swarthmore School Board, Frank M. Smith, President, Swarthmore, Pa. To replace building destroyed by fire.

Stadium, Bethlehem, Pa. Preliminary plans in progress. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, City of Bethlehem School District, Bethlehem, Pa.

Mausoleum, St. Augustus' Lutheran Cemetery, Main street, Trappe, Pa. Plans in progress. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Frank W. Shalkop, Main street, Trappe, Pa. Barre granite, marble, 6 crypts, granite roof, marble floors, slate linings, bronze roof ventilators, bronze metal window guards, bronze doors and trimming, marble wall finish.

Residence and Garage, Haverford, Pa. Plans in progress. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, James A. McQuail, Merion Manor Apartments, Merion, Pa. Stone and frame, 2½ stories, 48x60 feet.

Sewage Disposal Plant, Franklin and Washington streets, Norristown, Pa. Plans in progress. Engineer selected. Engineers, Remington-Vosbury-Goff, Camden, N. J. Owners, City of Norristown, John Rhoades, Sewer

Committee, Norristown, Pa.

Residences (7) and Garage, \$50,000 to \$75,000 each. South Devon, Pa. Plans in progress. Owner will build in spring, 1930. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Casper Bongiovanni, Ardmore, Pa. Stone, frame, brick and stucco, 2½ stories and basement, hot water heat, electric light, metal lath, tile work, slate and tile roof, oak and yellow pine floors.

School, between Morrisville and Yardley, Pa. Will be ready for bids in 3 weeks. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Lower Makefield Township, Edwin Greenlee, President, Yardley, Pa.; Clarence H. Harvey, Secretary, Woodside, Pa.

Residence and Garage, Rosemont, Pa. Owners will build. Ready for sub-bids. Architect, private plans. Owners, Brown & Dulles, Villa Nova, Pa. Stone, 2½ stories and basement, 46x55 feet, irregular, hot water heat, wood shingle roof, oak floors, tile bath, wood sash.

Residence and Garage, Mt. Pleasant and Panorama road, Villa Nova, Pa. Architects ready for bids in a week. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, Ralph L. Murray, care of H. Belfield Co., 435 North Broad street, Philadelphia, Pa. Stone, 2½ stories, 30x90 feet, 26x75 feet, vapor heat, tile, marble, tile roof, hardwood floors.

Residence (alts.) and Garage, Yardley road, Yardley, Pa. Architect will be ready for bids this week. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, M. Huston Dixon, Westover, Pa. Brick, 2 stories, 20x30 feet, slate roof, oak floors, electric work, tile work, (2) fireplaces.

Professional Arts Building, Reading, Pa. Architect will be ready for bids about December 18th. Architect, Fred A. Muhlenberg, Ganster Building, Reading, Pa. Owners, care of architect. Limestone, buff brick, steel, 9 stories, 30x135 feet, slag roof, concrete floors, elevators, casement windows, iron stairs, kalamein doors, tile, marble, electric light.

Home (alts. and add.), 37 South Eighth street, Reading, Pa. Architect will be ready for bids about December 15th. Architect, Earl Hickman, 148 North Fifth street, Reading, Pa. Owners, Fraternal Order of Orioles, Nest No. 2, R. C. Clausen, on premises. Brick, 2 and 3 stories.

Pump House and Pipe Lines, \$3,000,000. Linwood Pa., to Marcus Hook, Pa., as far west as Ohio. Application filed. Work contemplated. Owners, Sun Oil Co., Linwood, Pa.; Susquehanna Pipe Line Co., J. Howard Pew, Ardmore, Pa.

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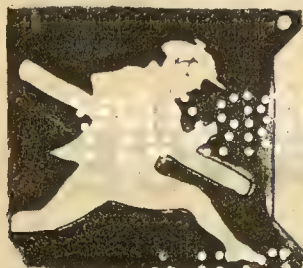
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School and Chapel, Lancaster, Pa. Architect will be ready for bids in about two weeks. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, St. Ann's Roman Catholic Church, Rev. Thomas L. McEntee, 925 North Duke street, Lancaster, Pa. Brick, steel, 2 stories and basement, 10 rooms, maple floors, hollow tile, roof ventilators, electric light, metal lath, steel sash, fire doors, bond.

High School, West Conshohocken, Pa. Owners will be ready for bids in about ten days. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, West Conshohocken Borough School Board, C. W. Riggs, Secretary, West Conshohocken, Pa. Brick, fireproof, 1 story and basement, 75x167 feet, built-up roof, maple and composition floors, hollow tile, roof ventilators, damp-proofing, cast stone, bond, kalamein doors, steel sash (heating, plumbing and electric separate).

Residence, \$100,000. Mt. Pleasant road, West Rock Hill, Bryn Mawr, Pa. Work contemplated. Architect, private plans. Owner, care of F. P. Carter, 613 Gulph road, Bryn Mawr, Pa. Tract 3 acres.

Two Stores and Apartment Building, Upper Darby, Pa. Tentative sketches in progress. Architects, Hodgins & Hill, 130 South Fifteenth street, Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick and steel, 5 stories and basement.

Residence, Bridge street, beyond Spring City, Pa. Plans in progress. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Frank Mowrer, R. D. No. 2, Spring City, Pa. Brick, cement block, 2½ stories, 30x30 feet, slate roof, oak and yellow pine floors, Morgan doors, wood sash, electric light (heating, plumbing and lighting separate).

Rectory, Williamsport, Pa. Plans in progress. Architects will be ready for bids about February. Architects, Sheridan & Knoblock, Markle Building, Williamsport, Pa. Owners, Mater Doloroso Roman Catholic Church, Rev. Gerard Augio, 220 Market street, Williamsport, Pa.

Club House (add.) and Locker Room, Bradywine Summit, Pa. Architect ready for bids due December 23rd. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, name withheld. Hollow tile, stucco, 2 stories and basement, 30x40 feet, tin roof, pine and concrete floors, heating extension, electric light, tile, marble, showers.

Building (alts. and add.), South Temple, Pa. Architect taking bids due December 12th. Architect, C. J. Young, 226 North Sixth

street, Reading, Pa. Owners, Moore Body Company, A Trust Estate, South Temple, Pa. Brick, steel, limestone, 1 story, 45x76 feet, 15x27 feet, Barrett roof, cement floors, caulking, waterproofing and dampproofing, wrought iron pipe, floor hardener, metal doors, steel sash, electric work, heating extension.

Church and Sunday School, Hamorton, Chester County, Pa. Architects taking bids due December 17th, 3 P. M. Architects, H. Rex Stackhouse and W. W. Donahue, 313 South Smedley street, Philadelphia. Owners, Hamorton Methodist Episcopal Church, Hamorton, Pa. Stone, 60x50 feet, 1 story and basement, vapor heat, electric light, slate roof, maple and cork floors.

Residence and Garage, Emilie, Pa., near Bristol, Pa. Architect taking bids due December 12th before noon. Architect, Paul Cret, Otis Building, Philadelphia. Owner, Dr. Milton Greenman, Thirty-sixth and Woodland avenue, Philadelphia. Cinder block and stucco, 2½ stories and basement.

Residence and Garage, Righter's avenue, West of Conshohocken road, Cynwyd, Pa. Architect taking bids due December 14th. Architect, J. Bedford Wooley, 1935 Chestnut street, Philadelphia. Owner, name withheld. Frame, 2½ stories and basement, 72x58 feet, irregular, excavation, structural steel, iron work, carpentry and mill work, painting and glazing, oak and yellow pine floors, tile work, asbestos, slate shingle roof (plumbing, heating, electric work and weather stripping reserved).

Chapel, Yeadon, Pa. Work contemplated. Owner, St. Mark's P. E. Church, Rev. Frank S. Vernon, 1625 Locust street, Philadelphia. Bishop Thos. J. Garland, 202 S. 19th st., Phila.

Residence and Garage, near Wayne, Pa. Plans in progress. Architect taking sub-bids about January first. Architect, Charles H. Schaefer, 11 South 16th street, Philadelphia. Owner, J. Jos. Harris, 114 Audubon avenue, Wayne, Pa. Stone, 2½ stories, 30x117 feet, shingle roof.

Bungalows (7), Manoa, Pa. Contemplated. Architect, Charles H. Schaefer, 11 South 16th street, Philadelphia. Owner, H. B. Miller, care Architect. Construction of first 3 of 10 started.

Road Work, Pennsylvania. Owners taking bids due December 20th, at 10 A. M. Owners, Commonwealth of Pennsylvania, Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Allegheny County, R-681, Sec. 1, South Fayette Township, Oakdale Borough, 23,313 feet. One course reinforced concrete, excavation, (1) 22-foot span reinforced concrete bridge. Certified check, \$5,000.

Blair County, R-55, Sec. R-3, Hollidaysburg Borough, 1,920 feet. One course reinforced concrete, excavation, borrow excavation. Certified check, \$500.

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Bradford County, R-385, Troy and Granville Townships, 25,831 feet. Grading and drainage, excavation, borrow, (2) reinforced concrete bridges. Certified check, \$2,000.

Bucks County, R-386, Sec. 1, West Rockhill Township, 11,771 feet. Grading and drainage, borrow, excavation. Certified check, \$500.

Bucks County, R-659, Solebury, Upper Makefield and Wrightstown Townships, New Hope Borough, 29,315 feet. Grading and drainage, excavation, (1) reinforced concrete bridge. Certified check, \$1,500.

Centre County, R-219, Sec. 5, Boggs Township, 2,209 feet. One course reinforced concrete, excavation, (1) reinforced concrete bridge. Certified check, \$1,000.

Clearfield County, R-221, Sec. 1, Bell Township, Newburg Borough, 13,946 feet. One course reinforced concrete, 100 feet grading and drainage, excavation, borrow, (1) reinforced concrete bridge. Certified check, \$2,500.

Columbia County, R-16, Fishing Creek and Benton Townships, Stillwater Borough, 26,355 feet. Grading and drainage, excavation, borrow, (2) reinforced concrete bridges, (1) double pony truss bridge. Certified check, \$3,000.

Dauphin County, A-6600, Jackson Township, 6,614 feet. Bituminous surface treated macadam surface course, 8,100 feet grading and drainage, excavation, borrow. Certified check, \$1,000.

Delaware County, A-6254, Aston Township, 6,630 feet. One course reinforced concrete, excavation. Certified check, \$1,500.

Fayette County, R-578, Sec. 1, Springfield and Salt Lick Townships, 18,285 feet. One course reinforced concrete, 164 feet grading and drainage, excavation, borrow, (1) reinforced concrete arch bridge. Certified check, \$3,500.

Forest County, R-380, Jenks Township, 18,556 feet. One course reinforced concrete, excavation, borrow. Certified check, \$2,000.

Huntingdon County, R-55, Sec. R-3, Porter and Smithfield Townships, 24,240 feet. One course reinforced concrete, 789 feet grading and drainage, excavation, (1) reinforced con-

crete arch bridge. Certified check, \$7,500.

Jefferson County, R-59, Sec. 2, Brockway Borough. Bridge, 2-span, reinforced concrete beam, each span 45 feet, roadway 31 feet, over Little Toby Creek. Certified check, \$1,000. Excavation, one course reinforced concrete, concrete, plain steel bars, fabricated structural steel.

Juniata County, R-193, Beale Township, 28,637 feet. Grading and drainage, excavation, borrow, (1) reinforced concrete bridge. Certified check, \$1,500.

Luzerne County, R-654, A-6396, A-6679, Hazle Township, 19,799 feet. One course reinforced concrete, 4,550 feet grading and drainage, excavation, borrow. Certified check, \$2,500.

Mercer County, R-312, Sec. 2, Sandy Lake and Worth Townships, Sandy Lake Borough, 36,887 feet. One course reinforced concrete, excavation, borrow, (2) reinforced concrete bridges. Certified check, \$5,000.

Monroe County, R-165, Ross Township. Bridge, reinforced concrete, arch, 16-foot span, over Roscommon Creek, excavation, borrow, one course reinforced concrete pavement, concrete, stream bed paving, plain steel bars. Certified check, \$1,000.

Pike County, R-167, Delaware and Dingman Townships, 25,991 feet. One course reinforced concrete, excavation, borrow. Certified check, \$4,000.

Somerset County, R-547, Sec. 1, A-6603, Black Township, 9,900 feet. One course reinforced concrete, 800 feet grading and drainage, excavation. Certified check, \$2,000.

Sullivan County, R-17 Spur, Cherry Township, 14,121 feet, grading and drainage, excavation, borrow, (2) reinforced concrete bridges. Certified check, \$1,500.

Susquehanna County, R-10, New Milford Borough, 4,335 feet. One course reinforced concrete (2 feet on each side of existing concrete), excavation. Certified check, \$500.

Tioga County, R-20 Spur, Union Township, 14,499 feet. Grading and drainage. Certified check, \$1,000. Excavation, borrow.

Warren County, R-88, Youngsville Borough. Bridge, (2) span, 75 feet each, over Brokenstraw Creek, excavation, one course reinforced concrete pavement, concrete, plain steel bars, fabricated structural steel, concrete wearing surface. Certified check, \$2,000.

Westmoreland County, R-228, Sec. 3, Franklin and Washington Townships, 9,556 feet. One course reinforced concrete, excavation, borrow. Certified check, \$2,000.

Proposal forms and specifications free. Construction drawings, \$2.50 per set. Cross section drawings, 3 miles or less, \$7.50; 3 to 5 miles, \$10; 5 to 8 miles, \$15; all over 8 miles, \$20.

Pennsylvania Contracts Awarded

Telephone Building, Lancaster, Pa. Contract awarded Central Construction Co., Harrisburg, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of America, Nineteenth and Arch streets, Philadelphia. Brick, steel, limestone, 3 stories and basement, 97x120 feet, steam heat, electric light, metal lath, tile, rolled steel sash, bond, ornamental iron work, slag roof, cement floors, plumbing.

Residence and Garage, Mather Tract, Haverford, Pa. Contracts awarded. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, G. Herbert Taylor, Esq., 1518 Walnut street, Philadelphia. Stone, brick and half timber, 2½ stories, 30 feet x irregular, vapor heat, electric light, tile and marble work, tile roof, hardwood floors. General, J. Howard Roberts, Lansdowne, Pa. Plumbing, Galligan Brothers, 204 Bala avenue, Cynwyd, Pa. Heating, Bowers Brothers, 2015 Sansom street, Philadelphia.

Residence and Garage, Jenkintown, Pa. Contract awarded E. Allen Reeves, Abington, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, W. & M. Herkness, Jenkintown, Pa. Stone, 2½ stories and basement, irregular, hot water heat, electric light, metal lath, tile, bond, ornamental iron work, slate roof, oak and yellow pine floors, cement floors, plumbing.

Gas Station, Chester Pike and Lawrence road, Darby, Pa. Contract awarded I. S. Grindrod, 10 South Eighteenth street, Philadelphia. Architect, private plans. Owners, Vacuum Oil Co., Mitten Building, Philadelphia. Brick, 1 story, 27x28 feet, electric light, tile, cement floors.

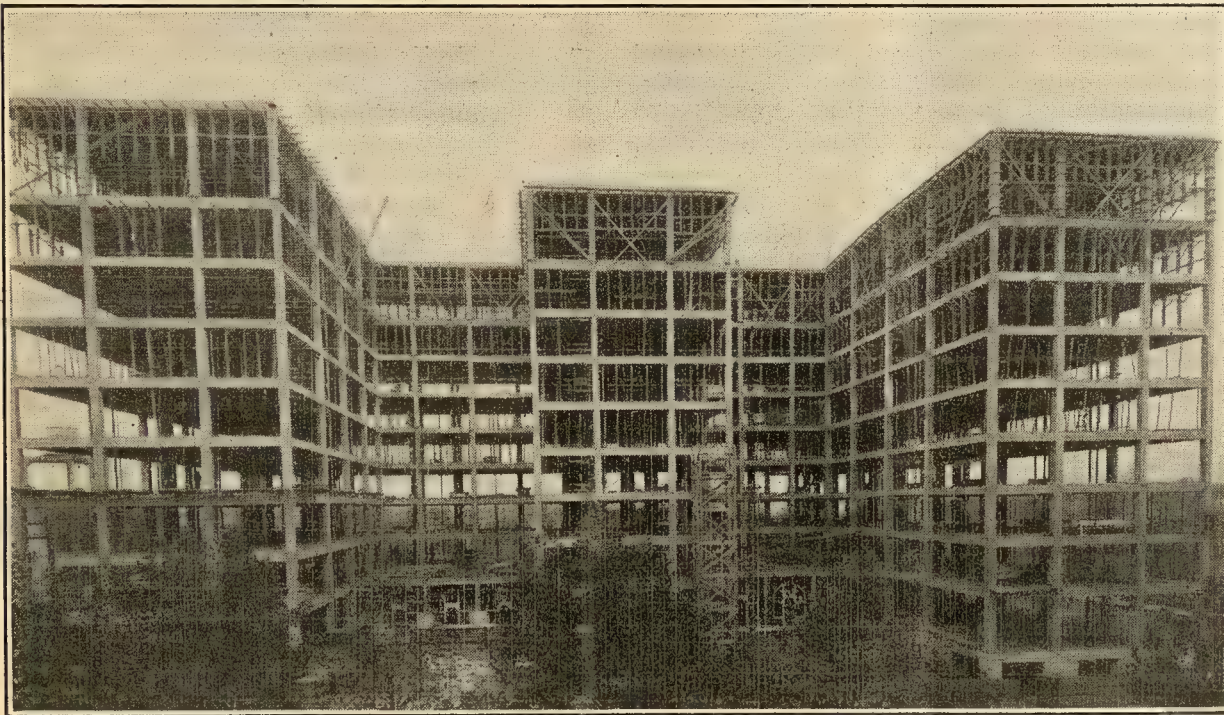
Residence (alts. and add.), Glen road, Ardmore, Pa. Contract awarded A. Raymond Raff Contracting Co., 1635 West Thompson street, Philadelphia. Architects, Savery & Sheetz, Stephen Girard Building, Philadelphia. Owner, name withheld. Carpentry and mill work, plastering, painting and glazing, cement work, hardware, metal lath, general interior alterations.

Store (alts.), Bryn Mawr, Pa. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia. Architect, private plans. Owners, Bryn Mawr Trust Co.; Lessee, Liggett's Drug Stores, Bryn Mawr, Pa. Tile and marble work, painting, electric work, alterations to heating work, plumbing, carpentry and mill work.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Somerset County, R-19, Sec. R-a, Jenner Township. One course reinforced concrete, grading and drainage. Windber Construction Co., Windber, Pa., \$92,628.52.

Perry County, R-191, Sec. A, Tuscarora and Saville Townships. Grading and drainage, (2)



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bridges. J. C. Shawfield Co., Harrisburg, Pa., \$60,737.16.

York County, A-6518, Dover Township. Bituminous surface treated macadam surface course, (1) bridge. York Engineering & Construction Co., York, Pa., \$60,245.28.

Erie County, R-85, Conneaut Township. Bridge over Pennsylvania Railroad. Excavation, borrow, concrete, plain steel bars. Progressive Engineering Corporation, Buffalo, N. Y., \$20,417.19.

Westmoreland County, R-480, Sec. 2, Derry Township. One course reinforced concrete, (1) bridge. Edward H. Cannon, Pittsburgh, Pa., \$189,312.74.

Jefferson County, R-237, Sec. 2, Rose and Clover Townships, Brookville Borough. One course reinforced concrete, (2) bridges. Hagedorn Construction Co., Oil City, Pa., \$264,435.22.

Chester County, R-142, Valley Township, City of Coatesville. One course reinforced concrete. Suburban Construction Co., Ardmore, Pa., \$61,064.52.

Erie County, R-496, Girard Township. Grading and drainage. Pitt Construction Co., Pittsburgh, Pa., \$112,265.76.

Bedford County, R-47, Sec. 4, East St. Clair Township. One course reinforced concrete, grading and paving, bridge. E. H. & L. A. Brua, Jr., Hollidaysburg, Pa., \$51,432.98.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Sullivan County, R-321, Section 2, Shrewsbury Township, Eaglesmere Borough. Bituminous surface treated macadam surface course. Lane Construction Co., Meriden, Conn. \$196,738.30.

Tioga County, R-106, Delmar Township, Wellsboro Borough. One course reinforced concrete. Len Construction Co., Medien, Conn. \$243,835.58.

Juniata County, R-45, Spruce Hill and Tuffett Townships. Grading and drainage (1) bid. H. A. Klein, Penbrook, Pa. \$63,951.70.

Residence and Garage, near Devon, Pa. Contract awarded Charles T. Lownes, Gladwyne, Pa., who is taking sub-bids. Architect, private plans. Owner, E. H. Sickles, 213 Woodside avenue, Narberth, Pa. Stone, 2½ stories, 32x32 feet, shingle roof, hardwood floors, hot water heat, electric light (plumbing reserved).

New Jersey Construction News

Hospital, Brown's Mills, N. J. Work contemplated. Architect, not selected. Owners, Deborah Consumptive Society, Brown's Mills, N. J. Application to be considered December 19th by the State Board of Health.

Grade School, Bridgeport, N. J. Architects selected. Preliminary plans in progress. Architects, Charles R. Peddle, Simon Wasserman, Associate, 136 South Fourth street, Philadelphia. Owners, School Board of Bridgeport, Bridgeport, N. J. (Note correct location of job.)

Bulk Terminal, Trenton, N. J. Plans in progress. Architect, private plans. Owners, Shell Eastern Petroleum Products Co., care of Mr. C. Watts, Elverson Building, Philadelphia.

Post Office (alts.), Bridgeton, N. J. Owners taking bids due January 2nd, at 3 P. M. Owners, Treasury Department, Office of the Supervising Architect, Washington, D. C. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Remodeling and enlarging.

Occupational Therapy Building, New Jersey State Hospital for Insane, Greystone

Park, N. J. Owners taking bids due December 13th, at 2.30 P. M. Architects, Division of Architecture and Construction, Charles N. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 1 story, 154x95 feet, excavation, reinforced concrete work, waterproofing, dampproofing, limestone, iron work, area gratings, metal toilet partitions, steel sash, caulking, ventilators, kalamein doors, steel skylights, metal lath, plastering, hardware, painting, glazing, slate and built-up asbestos roof. Certified check, 5 per cent. Bond.

Bridges (3), New Jersey. Owners taking bids due December 23rd at noon. Certified check, 10 per cent. Deposit, \$10. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House Annex, Trenton, N. J.

Route 49, across Manumuskin Creek, at Port Elizabeth, Cumberland County. Excavation, borrow, concrete, reinforced steel, steel sheet pile cylinders, structural steel, timber foundation piles.

Route S-41, Sec. 1, (2) bridges, (1) in Pensauken Township, Camden County, (1) in Chester Township, Burlington County. Foundation excavation, concrete, concrete piles, reinforcing steel, structural steel.

Test Borings. Bridge over Brigantine Channel on the extension of State Highway Route S-4-A, from Little Beach to Brigantine, Atlantic County, N. J. Owners taking bids due December 11th at noon. Owners, Board of Chosen Freeholders of Atlantic County, F. W. Willetts, Clerk, Guarantee Trust Building, Atlantic City, N. J. Certified check, \$500. Bond. Specifications may be obtained from

County Engineer, 741 Guarantee Trust Building, Atlantic City, N. J.

Legion Home, Clements Bridge Road near Trinity Lutheran Church, Runnemede, N. J. \$3,000. Work contemplated. Owner, John Irvin Post, No. 250, American Legion, care Building Fund Committee, Henry Witmore, Wm. Gaunt and Wm. Keating, all Runnemede, N. J.

Aeration and Filtration Units, Haddon Heights, N. J. Owner taking bids due Dec. 23rd, 9 A. M. Owner, New Jersey Water Co., care E. J. Cooney, 610 Station avenue, Haddon Heights, N. J. Work consists of excavation, foundation, superstructure and electric work, heating, plumbing, etc. Plans may be obtained from owner on or after December 10th, noon.

High School, Washington street, Riverside, N. J. Owner taking bids. Architect, Alexander Merchant, New Brunswick, N. J. Owner, Riverside Township Board of Education, John Taylor Neal, president, Riverside, N. J. Brick, steel, 2 stories and basement, 9 rooms and gymnasium.

New Jersey Contracts Awarded

School, Albion, N. J. Contract awarded George Bachman, 19 North Thirtieth street, Camden, N. J. Heating to Harry Knecht, Collingswood, N. J. Electric to Howard E. Goff, Collingswood, N. J. Architect, Thomas Stephen, 312 Market street, Camden, N. J. Owners, Winslow Township School Board, Albert C. Crowley, Secretary, R. F. D., Hammon, N. J. Brick, 1 story, 3 rooms, slate roof, pine floors, roof ventilators.

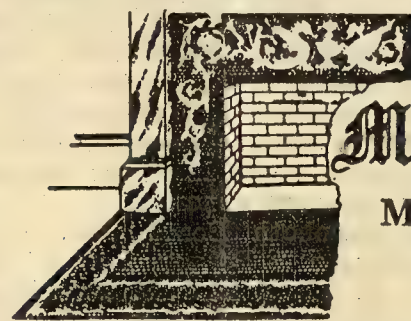
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Garage, \$10,086. Burlington, N. J. Contract awarded Hugh B. Miller, Edgewater Park, N. J. Architect, Henry Brown, Burlington, N. J. Owners, City of Burlington, Burlington, N. J. Brick, 1 story.

Dairy Building, Adriatic avenue, between Tennessee avenue and New York avenue, Atlantic City, N. J. Contract awarded M. B. Markland, Schwehm Building, Atlantic City, N. J. Architect, Lloyd Titus, Brighton Hotel, Atlantic City, N. J. Owners, Wilson Dairy Co., Atlantic City, N. J. Brick, steel, 2 stories and basement, 100x56 feet, metal lath, tile work, ornamental iron, composition roof, cement floors.

Heating Equipment in Water Plant, Haddonfield, N. J., \$2,132. Contract awarded Eisele & Manning, Haddonfield, N. J. Architect, private plans. Owners, Borough of Haddonfield, Haddonfield, N. J.

Miscellaneous Construction News

Residences (33), for Officers, Camp Meade, Md. Owner taking bids due December 19th. Architect, private plans. Owner, Const. Quartermasters Corps, U. S. A., Camp Meade, Md. Brick, concrete, 2½ stys., 47x334 ft., 44x34 ft., 2½ stys. and basement, steam heat, electric light, slate roof, oak and yellow pine floors.

Library, West Virginia University, Morgantown, W. Va. All bids exceeded appropriation. Lowest bidders will figure on slight revision. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, School Board of Control, James S. Lakin, President, Charlestown, W. Va.

Power House and Laundry, Wilmington, Del. Plans in progress. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Delaware State Hospital, Wilmington, Del. Fireproof, 2 stories. Too early for details.

School (add.), Laurel, Del. Owners will be ready for bids soon, due January 7th. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Dover, Del. Brick, 2 stories add.

Post Office Building, \$3,000,000. Baltimore, Md. Architect taking bids due January 6th, 3 P. M. Architect, James A. Wetmore, Supervising Architect, Washington, D. C. Owners, United States Government, Post Office Department, Treasury Building, Washington, D. C. Granite, limestone, marble and steel, 7 stories and basement, 230x180 feet, demolition, excavation, models concrete and cement, waterproofing, brick work, hollow tile, structural steel, iron work, mail chutes, steel casement windows, brass and bronze work, composition and tile roof, rolled steel skylights, metal lath, plastering, acoustic plaster, marble, travertine, slate, tile and terrazzo, rubber tile floors, carpentry and mill work, acoustic treatment, insect screens, safety treads, iron stairs, metal doors, rolled steel sash, bronze doors, concrete roof deck,

wood block, oak and yellow pine floors, steam heating, plumbing and electric work.

Observation Clinic, Continuation Treatment Building and Nurses' Home, Farnhurst, Del. Owners taking bids due December 19th. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Delaware State Hospital, Farnhurst, Del. Fireproof, 2 stories and basement, and 2 stories, 160x36 feet, (2) 36x60 feet, Johns Manville roof, concrete and linoleum floors, hollow tile, elevators, safety treads, roof ventilators, metal window guards, metal weather strip, waterproofing and dampproofing, cut stone, ornamental iron, iron stairs, bond, fire doors, steel sash and skylights, tile, marble, terrazzo, metal lath (heating, plumbing and electric separate).

Miscellaneous Contracts Awarded

Stores and Offices (alts.), 1914-16 Bdway., New York. Contract awarded Kuhn Smith-Harris, 225 West Thirty-fourth street, New York City. Architects, Stuckert & Co., 362 West Fiftieth street, New York City. Owner, Elizabeth B. Hellman, 71 West Forty-fifth street, New York City. Lessees, Bickford's, Inc., S. L. Bickford, President, 362 West Fiftieth street, New York City. New granite, 3 stories, 58x50 feet, bronze bulk window construction, new partitions, plumbing, carpentry work.

High School (add.), Dover, Kent County, Del. Contract awarded George H. Thomas, Dover, Del., \$21,045.13. Architects, Frank R. Watson & Edkins & Thompson, 1520 Locust street, Philadelphia. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Board of Education Building, Dover, Del. Brick, cast stone, steel, 2 stories and basement, 64x35 feet, Barrett roof, maple and cement floors, steam heat, electric light, metal lath, steel sash, bond, ornamental iron, reinforced concrete, excavation, metal partitions, carpentry, mill work, hardware, painting, glazing, plumbing.

School (add.), Smyrna, Kent County, Del. Contract awarded J. Roland Dashiell, Salisbury, Md., \$50,000. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Board of Education Building, Dover, Del. Brick, steel, 2 stories and basement, 103x38 feet, slag roof, maple and cement floors, hollow tile, safety treads, roof ventilators, dampproofing, architectural terra cotta, bluestone, ornamental iron, iron stairs, metal lath, tile, marble, excavation, reinforced concrete.

Cottage, Rehoboth Beach, Del. Contract awarded Johnson & Pepper, Lewes, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, care of architect. Frame, 2 stories, 20x30 feet, shingle roof, pine floors, electric light.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

WINTER WORK?

"Inside" Information on Ten Ways to Make Money in Zero Weather

By JAMES E. SEVERN

The first snowstorm has had a tendency to cause more cases of "cold feet" among builders than anything else. Yet there are a number of exceptions to prove that, instead of becoming a season with which comes the inherited right to hang up the hammer, the trowel and the paint brush, winter is really a season of new opportunities for the builders who will put on their thinking caps.

This article outlines a few ideas for developing profitable and comfortable forms of winter work and will no doubt start you thinking of many others.

Keep in mind that when cold weather makes its appearance people spend much more time indoors than at any other time of the year. It is at this season that they appreciate the comforts and conveniences of adequate shelter. It is at this time that they are forced to realize the shortcomings and inconveniences of out-of-date houses.

On those snowy days when the children must play in the house, their mother will doubtless be in a receptive mood for suggestions about a playroom in the attic or in the basement!

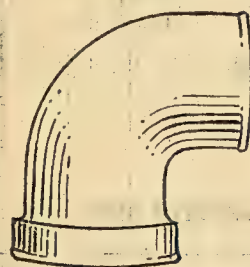
In practically every house in the United States there are unused spaces that can be brought into service. And this type of work may be done without serious inconvenience to the occupants. You'll not be bothered with icicles or snowdrifts in the cellar or in the attic. These areas offer exceptional possibilities for a wide range of practical treatments.

What would happen if a building company sent out several energetic salesmen equipped with portfolios of attractive pictures illustrating the many delightful and practical results that can be attained in homes that are not one hundred per cent. livable? Let them ring the same doorbells that have tingled to the tune of a dozen automobile salesmen, refrigerator salesmen and others. They could show a dozen different uses for that now dark and damp cellar—they could picture a comfortable extra room or two in the bare, stuffy attic, and so on, down a list of improvements in which every home owner has a genuine interest.

Solicitation of this sort is bound to be successful if properly conducted. In the first place it represents a sound, practical service. The market has barely been scratched. And sales resistance is at a minimum, because deep down in everyone's heart is a desire to keep his home up-to-date and make it more comfortable and more efficiently equipped.

It would not be difficult to prepare a small leather-bound sales manual in which

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could be plainly pictured the modern things that make a home pleasant and livable on every floor. Good photographs are available through your building supply dealer or manufacturers of insulating materials, built-in equipment, built-in furniture, flooring, heating equipment, paint, etc. Illustrations from catalogs and advertising pieces may often be used. You can show home owners many things they never realized about their homes—you can start a modernizing movement! Once you succeed in starting a family on improvements it will lead to much more business than planned.

"A six-room house becomes an eight-room house in two weeks at a cost of \$825" would read a typical statement relative to that type of work which reclaims the unused area of houses.

A Selling Kit

Then, in this age of color, pleasing finishes and attractive textures, flooring always holds the home owner's interest. There is a tendency towards fewer carpets and rugs—a floor that may be quickly and easily kept clean.

A splendid way to show the beauty and explain the durable qualities of various flooring is to finish in various ways small samples of different types of flooring. Make up a kit of these pieces which can be shown to prospects—let them feel the smoothness, inspect the grooves, admire the grain.

One of the first things to be noticed in any home is the finish of the walls. Whether painted, paneled, papered or textured, walls have always been a problem for the home owner. Knotty pine is coming back strongly into favor and there are many good illustrations available which show the beauty and permanence of this type of finish. Many other woods are also being successfully used. Paint for walls and woodwork and plastic texturing materials for walls and ceilings are other items that interest the home owner and may bring winter profits to the builder.

There is room in almost every home for a corner cabinet, more complete cabinets for the kitchen, a bathroom cabinet, modern medicine cabinet, cedar-lined closets, an incinerator, package receivers and other efficiency units.

Everyone is conscious of the trend towards two bathrooms in the average small home. Even though the fixtures may be a large item in the cost, there is a very generous share of profit in this type of work for the general building contractor. In addition to the regular tile, metal, asbestos and composition sheets finished to imitate tile and marble offer possible treatments for the walls here (and also for the kitchen).

Everyone enjoys the comfort of a fireplace that works properly. This factor in construction has undergone great im-

provement in the last few years. There are now special units which can be installed to trap the warm air generated and throw it back into the room through grilled vents. Many new, attractive designs and better working equipment make it practical in some cases to replace old construction that is unsightly and smokes up the whole place.

Winter is also the ideal time for installing new electrical outlets and equipment, for scraping and refinishing floors, for repairing cracked ceilings and walls, and for insulating the interior garages.

It is all very well to sit back and say these are swell ideas and no doubt we could dig up a lot of business in this type of work, particularly as it can be easily done when the thermometer registers below zero, but that will not bring in orders!

You have got to tell your story to the people in your town. You've got to keep the ball rolling until the job is closed!

As a further help to merchandising in this fertile field, several agencies have been formed which offer finance plans for remodeling and improvement work equal to any of the existing plans employed in part-payment selling by competitors of the building industry. It is, therefore, a simple matter to say to George Johnson, "This new room in the attic, a linen closet, as your wife suggests, and a new sink will cost you twenty-five dollars a month over a period of eighteen months." And furthermore, you have no money tied up, the job is done and paid for. With this kind of promotion it will be a busy winter for the builder who goes out and brings in waiting jobs.—*Building Age*.

INTERESTING REPORT BY STANDARDS BUREAU UPON TESTS OF BRICK

Architects and engineers will be interested in a very comprehensive report of the investigation of the compressive

strength of brick walls, completed some months ago by the United States Bureau of Standards, which appears in the October issue of the Bureau of Standards Journal of Research.

The report covers the compressive tests of 168 walls of common brick, each 6 feet long and about 9 feet high, and of 129 wallettes, about 18 inches long and 34 inches high. Four kinds of brick, three mortar mixtures, two grades of workmanship, different curing conditions, and ten different types of masonry, three solid and seven hollow, were the variables.

A very complete study was made of the strength properties of the brick. Compressive tests edgewise and flatwise, wet and dry; transverse tests edgewise and flatwise; tensile tests of whole brick, and absorption tests were made, each average being obtained from tests of 50 bricks of each kind. Shearing tests on a smaller number of samples were also made.

The results of these tests lead to the following conclusions:

1. The average strengths of solid walls built of end-cut Chicago brick (average compressive strength of half bricks flatwise, 3,280 lbs./in.²) were as follows: Lime mortar walls, 287 lbs./in.²; cement-lime mortar walls, 587 lbs./in.²; cement-mortar walls, 661 lbs./in.². A contract for building test walls was let, on a lump-sum basis, to a brick mason who specialized in small contracts. The work was done without supervision and was characterized by absence of mortar in the longitudinal vertical joints and deep furrowing of the horizontal beds.

2. With carefully supervised work-

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manship, the average strengths of solid walls which were built by another mason hired by the day without regard to output and which had completely filled vertical joints and smooth spread horizontal mortar beds were as follows:

Chicago brick: Compressive strength of half brick flatwise, 3,280 lbs./in.². Average compressive strength of solid walls—cement-lime mortar, not determined; cement mortar, 895 lbs./in.².

Detroit brick: Compressive strength of half brick flatwise, 3,540 lbs./in.². Average compressive strength of solid walls—cement-lime mortar, 945 lbs./in.²; cement mortar, 1,145 lbs./in.².

Mississippi brick: Compressive strength of half brick flatwise, 3,410 lbs./in.². Average compressive strength of solid walls—cement-lime mortar, 1,300 lbs./in.²; cement mortar, 1,550 lbs./in.².

New England brick: Compressive strength of half-brick flatwise, 8,600 lbs./in.². Average compressive strength of solid walls—cement-lime mortar, 1,875 lbs./in.²; cement mortar, 2,855 lbs./in.².

3. The strengths of the solid walls were more closely related to the shearing strength of the bricks than to any other strength property measured. The compressive strength of the half brick flatwise appeared to be the next best measure, and was better than the compressive strength on edge, the modulus of rupture, or the tensile strength of the bricks.

4. On the average the compressive strength of the wallettes was by far a more consistent measure of the strength of the walls than any of the brick strength values. In predicting wall strengths from brick strengths, effects of mortar and workmanship must be taken into account, while from wallette strengths, only a single value need be determined. These tests show that the average strength of

the walls was from about 60 to 90 per cent. of the average wallette strength.

5. The strength of the solid walls, which were built by contract, varied about as the cube root of the compressive strength of the mortar cylinders (2 inches in diameter and 4 inches long) which were made from the mortar of the walls and cured under the same conditions. For the solid walls built under careful supervision the increase in strength for cement mortar walls over those laid in cement-lime mortar was about 20 per cent. for walls of Detroit and Mississippi brick, and about 50 per cent. for walls of New England brick, while the average ratio of the cube roots of the mortar cylinder strengths (cement and cement-lime mortars) was 1.38.

6. With brick, the cross sections of which close approximated rectangles, the strengths of the hollow walls varied about as the net areas in compression. When the bricks were warped, the strength of the hollow walls was found to be less than that expected from the net area.

7. Construction data show that there is a saving in materials and in time for hollow walls of brick as compared with solid walls.

8. The condition of the horizontal mortar beds in the walls affected the wall strength. Walls in which the beds were smooth were stronger by from 24 to 109 per cent. than walls in which the mortar beds were furrowed.

9. Walls laid in cement mortar and kept damp for seven days after construction were not stronger at the age of 60 days than similar walls cured in the laboratory under ordinary conditions.

10. The results of the wallette tests in which the same variables occurred as in the larger walls lead, in general, to the conclusions deduced from the wall tests. —*Building Economy.*

INSURE OWNERS AGAINST DEFECTS FOR FIVE YEARS

"Guaranteed for five years" states the bronze plaque set into the masonry of houses by The Builders, Inc., who recently made their entrance into the San Francisco fine residence field.

Twenty-eight points in construction that make possible the giving of such a guarantee have been listed by The Builders, Inc., which cover most of the essentials of the building of a "life-time house."

Here are the twenty-eight essentials:

1. Concrete foundations reinforced with reinforcing steel.

2. The cement used in all basement foundation walls has been thoroughly waterproofed to make dry basements.

3. The outsides of all basement walls below grades waterproofed with hot pitch, thereby double waterproofing basement.

4. Mud sills completely coated with tar and creosote before laying to prevent any moisture rising from the cement into the walls and stop any action of dry rot.

5. Nothing but high grade of lumber used throughout. No dry rot, wind-shakes or loose knots permitted in any wood in the building under any consideration.

6. First grade clear oak, maple, teak or mahogany flooring throughout, except in bathroom, kitchen or other specified rooms, where tile or linoleum is used.

7. Complete insulation against heat and cold in floors, walls and ceiling with best grade insulation, making home warm in winter and cool in summer.

8. Building completely sound-deadened and dampproofed.

9. Positively only best grade of plaster used—hard wall gypsum plaster or stucco inside.

10. Three complete coats of plaster used, two coats not being enough for high-class work.

11. Machine-mixed plaster (no box and hoe method) insures proper mixing, giving greatest possible strength.

12. Complete drying between coats of plaster. No rush plaster job.

13. Only nationally advertised heating equipment, fully guaranteed, used.

14. Furnaces large enough to heat the entire house at once.

15. Heating systems used are certified heating systems which are most effective and most economical to operate. They are guaranteed by the heating contractor and also manufacturer who makes the heating plant, and also by Certified Heating Association.

16. Only best quality paints, varnishes and enamels. Positively no ordinary grade used.

17. Four complete and separate coats of paint on all woodwork. Two and three-coat work is generally used.

18. Three coats of paint outside, using

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20. Full-length bevel plate glass decorated mirror doors.

21. Three-layer floors insulated against heat, cold and sound, except where tile, linoleum or plank floors are used. The layers are as follows:

(a) Seven-eighths tongue and groove flooring (laid directly over floor joist).

(b) Insulation—Celotex.

(c) Finish boor in oak, mahogany, teak, walnut, maple or curly birch.

22. General Electric check seal wiring system throughout, with General Electric specifications, using General Electric equipment.

23. First grade brass pipe in hot water system, eliminating corrosion, costly repairs and tearing out walls.

24. All hot water pipes covered with one inch of asbestos fiber, saving fuel and insuring instant supply of hot water.

25. Copper leaders, gutters, flashings, down spouts and brackets.

26. Cabinets in kitchen are hand decorated.

27. Hand decorating with only highest grade oil paints which can be washed freely with soap and water.

28. Full-length plate glass mirrors in dressing rooms.—*The Associated Contractor.*

ARTIFICIAL LIGHTING TREATED CASUALLY

The average man builds one home for his own use in a lifetime. Previous to its creation, or even its contemplation, he makes mental comparisons between this ideal home and the one in which he lives.

He compensates for inconveniences and disadvantages in his present abode with the thought that "When I have my home, in it I shall have this and that." And so he muses over the comforts, the conveniences or the appearance and the satisfaction he shall derive in three essentially integral parts upon which all satisfactory home building is founded. Yet he must be practical, so everything is weighed in the scales for its right to inclusion in the building budget.

As the time approaches when the deal takes more concrete form as he sees his home growing from the embryo blueprint, he gives careful thought and study to nearly all details.

A heating system providing maximum efficiency at minimum cost of installation and operation is at last decided upon. Plumbing is carefully considered. These and other items are gone over carefully, yet another of the home's indispensable aids used in every room every day is treated quite casually in most building plans. This is the matter of artificial lighting.

Has it ever occurred to you that you, too, are probably treating artificial lighting in the new home too casually to even hope for fair results?

Also, it may not have occurred to you that with understanding forethought and without additional cost when building you will find that light has latent possibilities frequently lost through ignorance of correct application.

Artificial lighting is never entirely omitted, since it is man's development of light by night, and is as essential as the very windows themselves. Yet artificial lighting in relation to its need is frequently slighted.

Quite logically, the time to provide without additional cost for a high standard of lighting is when the home is in process of construction. The position of the lighting outlets should first be ascertained; then the types of fixtures chosen, to be suited to the various rooms of the home in regard to the type of lighting, and also to be harmonious with architecture and decoration.

To be a really valuable asset the lighting of the home should first meet all practical requirements; then there is an almost unexplored field for playing with light as a home beautifier and decorator. The entire atmosphere of a room may be changed by altering the lighting in it; likewise lighting may in turn create moods through reversal.

Many details lighted in some "trick" manner, such as a torchiere, open at the back to emit a narrow beam of light upon the object, have brought to light treasures which have been hidden.

Light should never be used as raw material, and all lamp bulbs, whether in fixtures or wall brackets, will be more pleasing in appearance and more satisfactory in comfort and effectiveness if they carry shades. Yet unshaded light sources are quite common.

Since in most places in the United States today four twenty-five-watt incandescent lamps may be burned for about a cent an hour, it can be seen that the free use of light is not prohibited, but possible for all.

In summing up the investment cost in the home you are contemplating, remember that one of the valuable assets, with a comparatively low initial installation cost, will be in a high standard of lighting.

It will not only add to resale value, but also provide you with an inestimable amount of comfort and convenience, and it it will make your home a happier place in which to live, to work and to play.—*East Bay Builder.*

WHY SOME MEN FAIL

There are many causes that lead to failure.

Here is a list of the most common causes:

Finding fault with the other fellow, but never seeing your own.

Doing as little as possible and trying to get as much as possible for it.

Spending too much time showing up the other fellow's weak points and too little time correcting your own.

Slandering those we do not like.

Putting off until tomorrow something that we should have done day before yesterday.

Talking friendly to the other fellow's face and stabbing him in the back as soon as he turns around.

False belief that we are smart enough to reap a harvest of pay before sowing a crop of honest service.

Disloyalty to those who have trusted us.

Last, but not least, lack of the necessary training and education to enable us to stand at the head in our line of work.

Look this list over and check yourself up by it. If none of these causes for fail-

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NEW TYPE FLOORING HELPS MAKE 100-STORY BUILD- INGS POSSIBLE

The long-cherished dream of many architects and builders—to erect 100-story buildings—may now be realized as the result of the development of a new type of electrically welded flooring which materially reduces the weight of the structure. The new floor construction, known as the "battledack" type, was announced and given its first public demonstration at the Seventh Annual Convention of the American Institute of Steel Construction, Inc., at Biloxi, Mississippi, November 14.

A sample structure was erected at Biloxi. The demonstration flooring was constructed in the presence of the Institute membership, using steel-plates and structural steel beams. A special General Electric automatic arc welding machine "stitched" the plates and beams together to form the flooring. The resulting structure met all specifications and tests satisfactorily.

According to the American Institute of Steel Construction, probably no part of a building structure, under present conditions, has been more unsatisfactorily developed than the floor panel construction, and yet it is the only reason for constructing a building. Modern methods of construction involve the use of materials, in the floor panels, which constitute a dead load that generally weighs considerably more than the live load which is to be supported. This excessive dead weight of the floor panels must be carried into the skeleton frame, girders and columns, and ultimately to the foundations. It is, says the Institute, therefore evident that one of the conditions which limit the heights of multiple-story buildings will be the capacity of the foundations to carry the dead load of the structure, which is greater than the calculated live load. A reference to the column schedule of a

multiple-story building will show that the column stresses for dead loads are often approximately two-thirds of the total stress, the other third being live load.

Engineering practice and code requirements, the Institute explains, recognize that the probability of the contemplated live load being simultaneously applied to all floors of a building is very remote, and therefore it is permissible to assume a very substantial reduction in the specified live load for designing the lower story columns and foundations of all tall buildings. This permissible reduction does not apply to the dead load, which is, of course, always present.

The new flooring was developed by the use of steel plates and structural steel beams. It is, according to the Institute, better than any floor that has been used before, and will stand every service to which the floor may be subjected. It is a floor in which it is possible to determine in advance the stresses in all parts, and a floor which will recover instantly one hundred per cent. of its deflection caused by live loads, when those loads are removed. It may be expected that one of the first objections made to this type of floor will be that it has not been used before, and is, therefore, without precedent. This objection is not sustained, however, since steel plate floors have been used for the charging floors of open hearth furnaces and for the decks of battleships, where they are subjected to the most severe service known.

A special electric arc welding machine, operating automatically, has been designed by the General Electric Company for this application, and one of the new machines was used at Biloxi to demonstrate the construction of the sample floor.

This machine consists of a three-wheeled, self-propelled vehicle driven by an adjustable-speed motor. On the framework are mounted a wire feeding device, a reel of welding wire, the travel motor and the control devices—all occupying a space of less than five square feet and having a height of two feet. A motor generator at a remote point supplies,

through a trailing cable, the current for welding—and for operating the travel motor. The speed of travel and the speed of the welding wire feed can be varied easily by adjusting small rheostats, thus making it possible to suit the operation to any particular set of circumstances.

In the demonstration at Biloxi a completely satisfactory weld was accomplished at a speed of $9\frac{1}{2}$ inches per minute.

In operation the machine is placed on the beginning of a seam, where it is lined up and started running. If by any chance it should tend to deviate from the seam during the course of travel, it can be easily steered by means of a small steering wheel on the mechanism. At the end of the seam it is merely necessary to turn the machine around and place it on the beginning of the next seam, proceeding from this point as before until all seams are welded.

The new floor is described by the Institute of Steel Construction as being a solid steel deck, which acts as a girder to prevent any torsional distortion of the building when subjected to wind or earthquake action. It enables the engineer to select that part of the structure which is to carry the wind stresses to the foundations, and to be assured that the deck flooring will deliver the stresses to the most rigid part of the vertical frame. The floor construction can be carried out into the walls to provide standard construction to support the outside walls. It will provide a working floor for other trades, and in many places eliminate the necessity of temporary planked floors.

The total cost of a floor constructed of three-inch I-beams and $3/16$ -inch plates, covered on the top with cork tile and fire-proofed on the under side, is estimated by the Institute as being a little over \$1.00 per square foot. It is pointed out, however, in this connection, that the cork tile floor eliminates the necessity of any other floor covering, which is always a part of a tenant's expense when using an ordinary masonry floor. The cost of a good chenille carpet alone is from \$1.25 to \$1.50 per square foot, and the welded "battledack" floor complete will cost less than the carpet and eliminates its necessity.

The new steel floor, says the Institute, is equally applicable to residences, multiple-story buildings, and bridges, and for building construction it will save from 20 to 60 pounds per square foot of floor in dead weight. In connection with a 75-story building with floor panels $21\frac{1}{2}$ feet by $22\frac{1}{2}$ feet, the saving in dead load on the foundations for each column is nearly two million pounds, and indicates that its use will permit an increase of 25 per cent. or more in the height of the building or in the number of floors without increasing the loads on the foundations.

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It is a proven empiricism, that "business without profit is no business." How often do you hear the phrase, "That's no business," generally applied to cases where there was no profit entailed in the deal.

No business can survive where the laws of economics are flagrantly disregarded—material, cost production and marginal profit must be figured. We are engaged in one of the greatest of all industries, building; consequently we should apply the most efficient methods in conducting that business. Our business consists of salesmanship, merchandising and construction. The successful builder today must know the fundamentals of engineering, the numerous markets for materials, the knowledge of color, effect and design, the principles and practice of salesmanship, the laws of finance, its source and cost.

There must be an absolute working correlation of all these essential elements of the building craft. The trouble always has been that the average builder is but partially equipped; a search of his building history reveals that he was formerly a journeyman carpenter, in some cases elevating himself to foreman or construction superintendent. Then he jumped into contracting, not realizing what knowledge was necessary to successfully compete with the trained construction engineer.

The average contractor sincerely believes that all the requirements necessary is to be able to take off the material from the blue prints, add a little over and above the labor cost, and if the owner or architect outfigures him—well, he, the contractor, can make it up some way or other. This appalling condition is common practice with most so-called contractors; the trained engineer knows that many jobs are awarded at a figure impossible to complete the job, especially amongst the subs. They must lose on the job. Not even a miracle can save them. Yet every day jobs are being let at these suicide figures, for it certainly is business suicide to take work at a loss, and then hope that something will come up to pull you out.

You bet, this is no business; it is ruin, of course. If you have no desire to keep in business, go ahead and pursue those methods. If enough of you go broke, it will give the legitimate contractor a chance to make a living, and when the problem has resolved itself into a condition where only those contractors are left in the field that understand the business from all angles, then the contracting business will be a business, and not the cut-throat game it is today. — *East Bay Builder.*

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

HYDRAULIC JACKS FOR SOIL TESTING

At the site of the Milwaukee County Court House load tests on a particular type of concrete pile new to Milwaukee conditions were recently made. The method employed by Mr. E. D. Steinhagen of S. M. Siesel Company, contractors, replaced the laborious and not altogether satisfactory process of balancing an actual weight upon the pile to be tested.

Instead a crude crib was erected and filled with approximately 100 tons of dirt to act as a "back-stop" for the Blackhawk jack which was interposed between the pile and weighted crib. Each pile tested was carefully levelled and a steel plate grouted over the top. The jack was placed on plate and on it was a 12x12 inch timber which extended to the crib bottom.

A light cable fastened to the steel plate was run over pulleys and connected to a long multiplying pointer, which registered ten times the actual deflection of the pile on a scale.

The initial pressure exerted by the jack was ten tons and this was increased ten tons each half hour until thirty tons had been reached. Deflections were recorded periodically. While thirty tons pressure with a maximum deflection of 30/100 of an inch is sufficient to meet the Milwaukee Building Code, the experiment was carried a few steps further. The pressure was now increased five tons each half hour until a total of forty-five tons pressure (50% over-load) had been reached. This pressure or load was allowed to remain for twenty-four hours.

According to the engineers in charge of the test it was especially interesting to note the accuracy with which the varying pressures could be applied through the hydraulic jack and the extreme ease of operation.

BIG BUILDINGS TREND TOWARDS COMPACTNESS

*Mechanical Draft Reduces Size of Power
and Heating Plants; Bowls
Over High Chimneys*

Widespread adoption of mechanical draft for boilers and furnaces, as well as new developments in artificial cooling, has solved the heating and power problem for new office buildings, hotels, athletic clubs, power houses and other structures, according to the testimony of expert building engineers.

With the demand for electrical energy the greatest in the history of the power industry, and with increasing needs for more compactness and size in buildings of all kinds, fan-driven air for proper combustion of fuels, draft for fires and cooling of boilers has raised the capacity of individual plants tenfold, the engineers say.

No longer are unsightly chimneys—standing hundreds of feet in the air—so imperative to high power production and efficient heating. Giant chimneys are being bowled over by the modern genii of the up-to-date boiler room—forced and induced draft. Power house engineers declare that chimney draft could not possibly be adequate to meet the requirements of the modern power station or even the power plant in a large office building. It was pointed out that without mechanical draft, chimneys would have to be built to phenomenal and unheard-of heights.

And of equal importance to any municipality, too, is the fact that more efficient combustion of fuel by means of mechanical draft is playing a major part in eliminating the smoke nuisance. When coal is thoroughly burned, there is a minimum of soot and cinders to pour out over the city, so that with blower systems of supporting combustion, the solution of the smoke problem from large power plants is a comparatively easy proposition.

A super-power plant recently built by the New York Edison Company, for example, emits comparatively small quantities of a browned haze from the stack. This plant burns immense quantities of pulverized coal. The ash, or non-combustible part of the coal, is separated from the gases by means of scientifically designed dust collectors.

Boiler plants using pulverized coal require blowers for feeding the coal into the fire box and maintaining it in suspension until combustion is complete, as well as for inducing the necessary volume of air for combustion. But blowers are used also for generator cooling and ventilation for transformers, converters, and other electrical apparatus. Only a short time since hand firing of bituminous coal was the rule and forced draft or induced draft fans operated against lower air pressures. But with the use of modern forced draft stokers, the rate of combustion has been multiplied until boilers are now designed for operating at two to four times the old rate of evaporation and require air pressures up to ten times greater.

Ventilating problems in power plants, either central stations or those in large buildings, are numerous and varied. The ventilation is largely made necessary by the increasing cost of building and the value of the space occupied. It is only by mechanical ventilation that most of the power plants and transformer stations built in the last few years could operate, the engineers declare. Battery rooms, condenser wells and switch-houses are also commonly designed with a view to forced circulation of air for cooling.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

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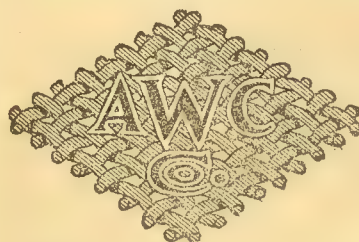
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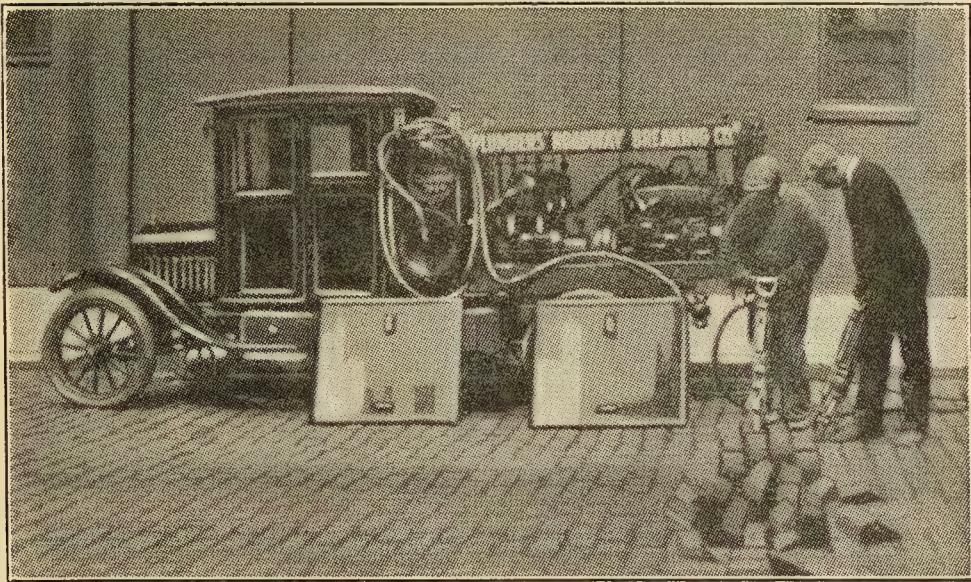
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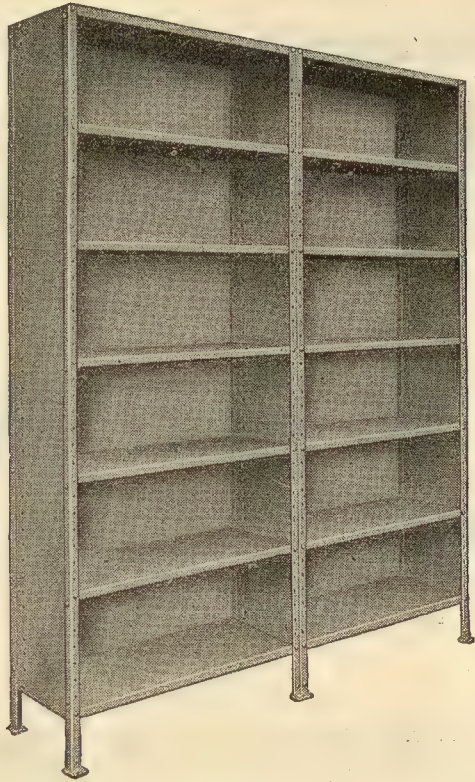
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF
MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Elimination of Grade Crossing, \$3,000,000, Twenty-first and Twenty-second streets, Allegheny avenue, Philadelphia. Elimination of Grade Crossing, Chester, Pa. Rebuilding Piers, \$1,000,000, Port Richmond, Va. Enlargement of Freight Facilities, \$1,000,000, Front and Noble streets, Philadelphia. Storehouse, \$800,000, Reading, Pa. Bridge, Munsey, Pa. Bridge, Rupert, Pa., over Susquehanna River, \$1,000,000 each. Bound Brook Bridge, over Raritan River, N. J., \$1,000,000. Station Building, Trenton Junction, N. J. Enlargement of Rutherford, N. J., Freight Yard and Improvements at Newberry Junction, N. J. Work contemplated. Engineer, Clark Dillenback, Reading Station, Twelfth and Market streets, Philadelphia. Owners, Reading Company, Agnew T. Dice, President, Twelfth and Market streets, Philadelphia, Pa.

Gymnasium Building, \$100,000. School lane and Germantown avenue, Philadelphia. Work contemplated. Architect, Robinson Lea Perot, 137 Harvey street, Philadelphia. Owners, Germantown Academy, on premises.

Primary School Building, School lane and Germantown avenue, Philadelphia. Work contemplated. Architect, Robinson Lea Perot, 137 Harvey street, Philadelphia. Owners, Germantown Academy, on premises.

Library Building, Twenty-second and Lehigh avenue, Philadelphia. Work contemplated. Architect, not selected. Owners, Fitzsimmons Junior High School Home and School Association, care of Dr. Walter Leferts, Principal, Twenty-sixth and Cumberland streets, Philadelphia.

Convent and Chapel, Fox Chase, near Philadelphia County. Plans in progress. Will take bids early in 1930. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, Sisters of St. Basil the Great, Fox Chase, Pa. Chapel, 2½ stories, convent, 3 stories, brick and stone, T-shape, laundry and gymnasium.

Parish House, Third and Reed streets, Phil-

adelphia. Ready for bids in a few days. Architect, Robert Gill, 5600 Germantown avenue, Philadelphia. Owners, Church of St. John the Evangelist, Rev. H. C. McHenry, on premises. Brick, stone, 2 stories, 102x31 feet, built-up roof, maple floors, vapor vacuum heat, electric light, plumbing work.

Factory, Taekawanna and Herbert streets, Philadelphia. Owners taking bids due as soon as possible. Architects, Penwood Company, City Center Building, Philadelphia. Owners, Mitchell & Salkind, care of Philadelphia Cleaners & Dyers, Herbert and Valley streets, Philadelphia. Brick, reinforced concrete, steel, 2 stories and basement, 40x100 feet, steam heat, slag roof (electric work reserved), rolled steel sash, ornamental iron work, concrete floors, plumbing.

Building (add.), Ninth and Girard avenue, Philadelphia. Owners taking bids due December 22nd. Architects, Construction Department, care of A. E. Bump, 60 East Market street, Boston, Mass. Owners, Swift & Co., Mr. Thomas Robinson, Ninth and Girard avenue, Philadelphia. Brick, reinforced concrete, steel, 3 stories and basement, 94x112 feet, slag roof, cement floors.

Fire Stations, Nos. 42 and 51 (alts.), Front and Westmoreland streets, and Old York road and Champlost avenue. Architect taking bids due December 23rd, noon. Architect, William Covell, City Hall Annex, Philadelphia. Owners, City of Philadelphia, Bureau of City Property, City Hall Annex, Philadelphia. Deposit, \$10. Proposals will be received in Room 903, City Hall Annex, opened on the Twelfth Floor of City Hall Annex, Philadelphia.

Plant (add.), State road, North of Levick street, Philadelphia. Owners taking bids due December 21st. Engineer, L. T. Safford, Welsh and Old Newton road, Bustleton, Pa. Owners, Linear Packing & Rubber Co., on premises. Brick and steel, 2 stories and basement, 128x46 feet, slag roof, North Carolina pine floors.

Residence (alts. and add.), 3113 West Coulter street, Germantown, Philadelphia. Architect taking bids due as soon as possible. Architect, John W. Reyes, 112 South Sixteenth street, Philadelphia. Owner, Frank H. Burpee, on premises. Stone, cinder block, stucco, 2½ stories and basement, irregular, hot water heat, electric light, metal lath, shingle roof, oak and yellow pine floors, plumbing, painting and glazing, plastering.

Metal Housing for Car Cleaners' Storage, Twelfth and Market streets, Philadelphia. Owners taking bids due December 20th. Engineer, Clark Dillenback, Twelfth and Market streets, Philadelphia. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Corrugated iron, 1 story, 16x41 feet, demolition, concrete, cement work, structural steel, sheet metal work, elevator doors, hardware, painting.

Miscellaneous Work, Philadelphia, Pa. Owners taking bids due December 23rd, noon. Owners, Bureau of City Property, Room 117, City Hall, Philadelphia. Erection of metal shelving and wire screening in sub-basement of City Hall Annex, Philadelphia. Deposit, \$10. Erection of flag poles on City Hall Annex, Philadelphia, and Germantown Municipal Building.

Contract No. 151, Broad Street Subway, Philadelphia, Pa. Owners taking bids due December 27th, noon. Architect, private plans. Owners, Department of City Transit, City Hall Annex, Philadelphia. Furniture, small tools and miscellaneous equipment, for South Broad Street Subway, Philadelphia. Deposit, \$10, refunded.

Service Station, Northwest Corner Frankford avenue and Devereaux street, Philadelphia. Owners will build. Architect, private plans. Owners, Atlantic Refining Co., C. J. Cutting, 3144 Passyunk avenue, Philadelphia. Brick, 1 story, cement work, plumbing, electric light.

Residences (4), \$34,000. South side Wads-

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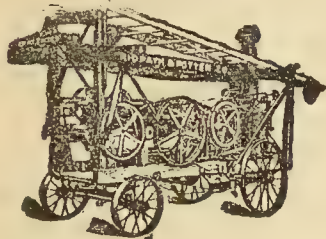
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worth street, West of Stenton avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Brick, 3 stories, 25 feet 10 inches x 33 feet, hardwood and pine floors, hot water heat, electric light, tile work.

Storage Building, \$5,000. South side Thirty-fourth street, North of Indiana avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Cramp & Co., 801 Denekla Building, Philadelphia. Steel frame, 60 feet x irregular.

Gasoline Station, \$5,000. Northwest Corner Ogontz avenue and Middleton street, Philadelphia. Permit issued. Architect, private plans. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Brick, 1 story, 18 feet 9 inches x 39 feet 3 inches.

Gas Station, \$3,500. Southwest Corner Ogontz avenue and Wynecote avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Atlantic Refining Company, 260 South Broad street, Philadelphia. Brick, 1 story, slag roof, cement floors, electric light.

Storage Building, \$2,500. Southeast Corner Horrocks and Rauch streets, Philadelphia. Permit issued. Architect, private plans. Owner, Joseph R. Pellgniv, 4722 Edmund street, Philadelphia. Brick, 1 story, 32x45 feet, electric light.

Shop, Office and Garage, \$3,500. 1036 West Schiller street, Philadelphia. Permit issued. Architect, private plans. Owners, Rumpf & Kohlmeyer, 3543 Germantown avenue, Philadelphia. Brick, 2 stories, 17 feet 6 inches x 20 feet 2 inches, garage, 1 story, 53x17 feet 6 inches.

Garage (add.), \$10,000. 732 Rising Sun avenue, Philadelphia. Permit issued. Architect, private plans. Owner, Albert V. Millichop, 3621 North Eighth street, Philadelphia. Brick, 2 stories add., 64x70 feet, slag roof, cement floors.

Stores (alts.) to Bus Terminal, \$5,000. 1229-31 Filbert street, Philadelphia. Permit issued. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, M. Hyman, Windsor Hotel, Philadelphia. General alterations.

Cooling Towers, \$2,500. Southeast Corner Sixth and Clearfield streets, Philadelphia. Permit issued. Owners, Philadelphia Beverage Co., 3029 North Sixth street, Philadelphia.

Bridge, Tioga street, over North Penn Railroad, Philadelphia. Plans drawn. Work contemplated, subject to approval by Public Service Commission. Owners, City of Philadelphia and Reading Railroad Company, Twelfth and Market streets, Philadelphia. Reinforced concrete.

Remodeling and Alterations, United States Post Office and Court House, Philadelphia,

Pa. Low bidders. Architect, private plans. Owners, United States Government, Treasury Department, Washington, D. C. Remodeling Rooms 504-506, entrance vestibule. Remodeling Rooms 504, 506. Schaefer & Co., 1600 Arch street, Philadelphia, \$2,190; Haverstick & Borthwick, 1505 Race street, \$2,275. Entrance vestibule, Post Office Building, Philadelphia: Haverstick & Borthwick, 1505 Race street, Philadelphia, \$1,793; Harry R. Rust, 41 North Hutchinson street, Philadelphia, \$1,987.

Store (alts.), Seventh and Market streets, Philadelphia. Architect taking bids due December 20th. Architect, Simon & Simon, Fidelity Philadelphia Building, Philadelphia. Owner, Lit Brothers, on premises. Reinforced concrete, brick work, structural steel, kalamein doors, rolling steel doors, metal lath, caulking, plumbing.

Store Building, 1720-22-24 Chestnut street, Philadelphia. Architect taking bids due December 30th, noon. Architect, Silverman and Levy, Thirteenth and Chestnut streets, Philadelphia. Owner, Winkelman Bros., Heymann Building, Philadelphia. Brick, lime stone, steel, 3 stories.

Masonic Temple, 24-25 Pennsylvania avenue, to Fairmount avenue, Philadelphia. \$5,000,000. Competitive sketches will be received by the owner early in 1930. Owner, Free and Accepted Masons, care J. Willison Smith, Grand Master of Grand Lodge, Broad and Filbert streets, Philadelphia.

Restaurant (alts. and new front), 930-32 Chestnut street, Philadelphia. Architect taking bids about January 2nd. Architect, John C. Westervelt, 36 West Thirty-fourth st., New York City. Owner, Child's Restaurant, Mr. F. B. Van Dorn, 200 Fifth avenue, New York City.

Factory, Warehouse and Office Building, West Side of State street road, South of Rhawn street, Philadelphia. Plans about completed, will be ready for bids in few days. Engineer, Alsen & Cook, 117 South Tenth street, Philadelphia. Owner, McCloskey Varnish Co., Thirtieth and Locust streets, Philadelphia. Brick, steel and concrete. Size of lot 155x600 feet.

Residences (10), 7809-27 Fillmore street, Philadelphia. \$35,000. Permit issued. Architect, private plans. Owner, George Betz, 511 Tyson street, Philadelphia. Brick, 2 stories, 14 feet 6 inches by 45 feet, slag roof, hardwood and pine floors, hot water heat, electric light.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Warehouse, Torresdale and Kinsey streets, Philadelphia. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia. Architect, private plans. Owner, Crane Co., 1301 Locust street, Philadelphia, D. G. Park, Purchasing Agent, 836 South Michigan avenue, Chicago, Ill. Brick, reinforced concrete, granite, 1 story and basement, 105x58 feet, demolition, excavation, stone masonry, cement floors, floor hardener, zenithern floors, waterproofing, terra cotta coping, structural steel, iron work, brass work, steel sash, fire doors, slag roof, rolled steel skylights, wood roof deck, zenithern wall finish, mastic wall finish, mastic floors, metal lath, plastering, metal toilet partitions, painting and glazing.

Convention Hall, Thirty-fourth and Vintage avenue, Philadelphia. Contracts awarded. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, City of Philadelphia, Harry A. Mackey, Mayor, City Hall, Philadelphia. Reinforced concrete, brick, steel, granite, limestone, 6 stories and basement, 405x236 feet, metal lath, tile, marble, terrazzo, rolled steel sash, rolled steel skylights, kalamein doors, hollow metal doors, bond, floor hardener, iron stairs, steel casement windows, ornamental iron work, bronze work, area grating, gypsum roof deck, cement and oak floors, roof ventilators, caulking, caissons, waterproofing and dampproofing, terra cotta, excavation, concrete piles, mastic floors, linoleum floors, kitchen equipment, refrigerators, elevators, acoustics, cork insulation, demolition, copper-covered doors, composition roof. General, McCloskey & Co., 1620 Thompson street, Philadelphia, \$3,711,111. Heating, William Anderson, 600 Schuylkill avenue, Philadelphia, \$589,247. Plumbing, Jacob Bugger, 2124 East Cumberland street, Philadelphia, \$132,000. Electric, Fischbach & Moore, 226 East Forty-first street, New York City, \$698,000.

Nurses' Home, Fifth and Reed streets, Philadelphia. Contract awarded William Linker Company, 735 Cherry street, Philadelphia. Architects, Magaziner, Eberhard & Harris, 1701 Walnut street, Philadelphia. Owners, Mt. Sinai Hospital, on premises. Brick, steel, 3 stories and basement.

Office and Storage Building, \$28,000. 313-15 West Girard avenue, Philadelphia. Contract awarded Philip Haibach Contracting Co., 1261 North Twenty-sixth street, Philadelphia, who are taking sub-bids. Architect, private

plans. Owners, Louis Burk, Inc., Northwest Corner Third and Girard avenue, Philadelphia. Brick, steel, 3 stories, 29x64 feet, slag roof, cement floors, concrete and cement work, painting and glazing, insulation, hardware, plumbing, carpentry and mill work.

Residence (alts. and add.), 11 Hampton road, Chestnut Hill, Pa. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Benjamin M. Pepper, on premises. Brick work, plastering, painting and glazing, electric work, general interior alterations, carpentry and mill work.

Residence, \$20,000. 2408 Pine street, Philadelphia. Contract awarded Joseph Fester, 2518 North Corlies street, Philadelphia. Owner, Emma R. Fritsch, care of builder. Brick, 3 stories, 45x38 feet, 19x37 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work.

Gas Tank Foundations, \$17,000. Southwest Corner G and Venango streets, Philadelphia. Contract awarded J. H. Terry & Co., Drexel Building, Philadelphia. Architect, private plans. Owners, Philadelphia Gas Works Co., 1401 Arch street, Philadelphia.

Shop (add.), \$5,500. East side Salmon street, North of Westmoreland street, Philadelphia. Contract awarded A. Earl Barnes Co., 2044 East Clementine street, Philadelphia. Owners, Monarch Manufacturing Works, on premises. Brick, 1 story add., 40x50 feet.

Shop, \$2,000. 1838-40 North Twentieth street, Philadelphia. Contract awarded Harry Rose, 1778 Frankford avenue, Philadelphia. Architect, private plans. Owners, Rel Realty Co., 1778 Frankford avenue, Philadelphia. Brick, 2 stories, 26x32 feet, 17x58 feet, slag roof, electric light.

Warehouse, Torresdale avenue and Kinsey street, Philadelphia. Heating and plumbing awarded J. A. Quinn, 4324 Paul street, Philadelphia. Electric awarded Cummings Electric Co., 1620 Foulkrod street, Philadelphia. Owners, Crane Co., 1301 Locust street, Philadelphia. Architect, private plans.

Garage (add.), \$7,000. 230 North Fifty-seventh street, Philadelphia. Contract awarded E. F. Thuring, 311 George street, Philadelphia. Architect, private plans. Owner, V. Castacane, on premises. Brick, second story add., 40x82 feet, slag roof, cement floors.

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Brewery (alts.), \$4,800. 963 North Ninth street, Philadelphia. Contract awarded Friend-Reiff Company, Norristown, Pa. Owners, Mrs. Smith's Home-Made Pies, Pottstown, Pa. General alterations.

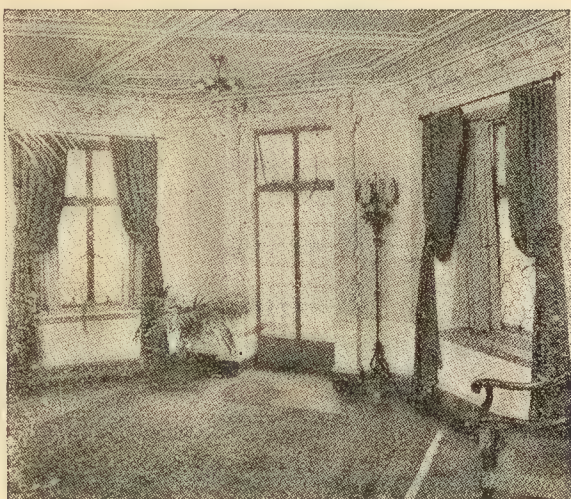
Gas Station, \$4,500. Southwest Corner Seventy-ninth and Ogontz avenue, Philadelphia. Contract awarded E. C. Haldeman, 3488 North Twentieth street, Philadelphia. Architect, private plans. Owners, McLean Motor Service Co., 623 Fisher's avenue, Philadelphia. Brick, 1 story, 17 feet 10 inches x 20 feet, slag roof, cement floors.

Residence (alts. and add.), \$2,500. 412 Monroe street, Philadelphia. Contract awarded A. Sidilkofsky, 1939 South Sixth street, Philadelphia. Architect, private plans. Owner, Jacob Zansky, on premises. Brick, 3 stories add., 12x8 feet 6 inches, general alterations.

Stores and Hall (repairs), \$12,000. Southwest Corner Broad and Montgomery avenue, Philadelphia. Contract awarded Frank G. English, 1606 North Carlisle street, Philadelphia. Architect, private plans. Owner, I. Hazleton Mirkil, Lafayette Building, Philadelphia. General fire repairs.

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Pennsylvania Construction News

Bank, Nescopeck, Pa. Architect taking bids due December 31st. Architect, The Ballinger Company, Twelfth and Chestnut streets, Philadelphia. Owner, Nescopeck National Bank, Nescopeck, Pa. General construction includes plumbing, heating and electric work. Architect taking separate bids on vault and vault furnishings.

Residence and Garage, Drexel Park, Pa. Contract awarded J. W. Murray, Media, Pa., who is taking sub-bids. Architect, Harold Edw. Williams, Drexel Park, Pa. Owner, name withheld. Stone, frame, 2½ stories and basement, 32x26 feet, garage 1 story, 18x22 feet, shingle roof, hot water heat, electric work, plumbing, oak and yellow pine floors.

School Building, \$70,000. Chester, Pa. Work contemplated. Architect, not selected. Owners, Pennsylvania Military College, Chester, Pa.

Men's Jail, Broad Meadow Farm, Delaware County, Pa. Work contemplated. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, George T. Wades, Media, Pa.

Senior High School, Williamsport, Pa. Work contemplated. Architect, not yet selected. Owners, Williamsport School District, H. A. Sterner, Secretary, 229 West Third street, Williamsport, Pa. Brick, 2 stories. Maturity indefinite.

Grade School, Williamsport, Pa. Work contemplated. Architect, not yet selected. Owners, Williamsport School District, H. A. Sterner, Secretary, 229 West Third street, Williamsport, Pa. Brick, 2 stories. Maturity indefinite.

Almshouse, \$200,000. Williamsport, Pa. (Exact site not yet selected.) Work contemplated. Architect, not yet selected. Owners, Lycoming County Commissioners, F. R. Applegate, Court House, Williamsport, Pa. Too early for details.

Club House, \$30,000. Ambler, Pa. Preliminary plans in progress. Architect, Watson K. Philips, 213 South Fifth street, Philadelphia. Owners, Norton Downs American Legion Post, Roscoe O. Brady, Chairman of Building Committee, 136 Park avenue, Ambler, Pa. Brick, concrete, block, 2 stories.

Residence Development (about 31 Residences), East Town Township, Chester, Pa. Architect selected. Preliminary sketches being prepared. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owners, R. J.

Seltzer and A. W. Hall, Fifteenth and Locust streets, Philadelphia. Stone, various sizes and types.

High School, \$100,000. Hellertown, Pa. Plans in progress. Too early for details. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Borough of Hellertown, H. A. Dimmick, Secretary, Hellertown, Pa. Stone, brick, 2 stories and basement.

Tuberculosis Hospital, \$450,000. Sewage Disposal Plant. Central Heating Plant, Water System. Broad Meadow Farms, Delaware County, Pa. Preliminary plans in progress. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Delaware County Commissioners, George T. Wades, Media, Pa.

Consolidated Grade School (add.), \$20,000. Main road near Cashtown, Pa. Plans in progress. Bond issue passed. Architect, probably B. E. Starr, 7 South Market Square, Harrisburg, Pa. Owners, Franklin Township School Board, Charles E. Kuhn, President, Cashtown, Pa.

Grade School (add.), Third street, West Fairview, Pa. Plans in progress. Architects, Lawrie & Green, Third and Forster streets, Harrisburg, Pa. Owners, West Fairview Borough School Board, J. H. Lantz, Secretary, 461 State street, West Fairview, Pa.

Cottages (3), Scotland, Pa., \$57,500. Plans completed. Architect, Granville Paules, Bucher Building, Columbia, Pa. Owners, Commonwealth of Pennsylvania, Scotland Soldiers' Orphans' School, C. Blain Smathers in charge, Scotland, Pa.

Residences (3), \$30,000 each. Lapidea Hills, Pa. Owner will take bids in the spring. Architect, E. Allen Wilson, 1600 Arch street, Philadelphia. Owner, Louis Coles Emmons, Swarthmore, Pa. Stone, frame, 2½ stories, 28x65 feet, electric light, tile, marble, wood shingle roof, hardwood floors, hot water heat.

Municipal Building, Coopersburg, Pa. Will be ready for bids in one week. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Borough of Coopersburg, H. A. Ritter, Coopersburg, Pa. Brick, steel, 2 stories, 90x88 feet, slate roof, pine floors, tile work, metal lath, electric light, waterproofing.

Residence (alts.), Lincoln Highway and Stewart avenue, Haverford, Pa. Architects will submit. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owner, Harry A. Grieco, 1321 Vine street, Philadelphia. General alterations.

Home Economics Building, State College, Pa. Architect taking bids due January 3rd.

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Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, State College, R. B. Hetzel, President, on premises.

Service Station, Altoona, Pa. Owners taking bids due as soon as possible. Architect, private plans. Owners, Vacuum Oil Co., Mitten Building, Philadelphia. Brick, steel, 1 story, 48x28 feet, metal lath, slate roof, cement floors, overhead doors, reinforced concrete, plastering, terra cotta coping.

Factory Building, \$75,000. Spring Mill, Pa. Owners taking bids due as soon as possible. Architect, private plans. Owners, Reilly-Whiteman Co., care of Mr. White, Conshohocken, Pa. Brick, steel, 1 and 2 stories and basement, 60x100 feet, rolled steel sash, slag roof, cement floors.

School, Schnecksville, North Whitehall Township, Pa. Owners taking bids due December 21st at noon. Architects, Jacoby & Verrett, Commonwealth Building, Allentown, Pa. Owners, North Whitehall Township School Board, P. Meekley, Secretary, Schnecksville, Pa. Brick, steel, 1 story and basement, 154x80 feet, slag roof, maple floors, safety treads, roof ventilators.

Moose Home (alts. and add.), Catasauqua, Pa. Architect taking bids due December 23rd. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owners, Loyal Order of Moose, Catasauqua, Pa. Brick, reinforced concrete, steel, 2 stories and basement, add. 94x39 feet, asphalt roof, maple floors, composition stone, steel casement windows, iron stairs, electric light (heating and plumbing separate).

Brick Plant, Bethlehem, Pa. Owners will sublet. Architects, Wiegner & Snyder, Bethlehem Trust Building, Bethlehem, Pa. Owners, Keystone Concrete Products Co., G. L. Grossman in charge, Thirteenth avenue, Bethlehem, Pa. Brick, steel, 1 story, 54x75 feet, slag roof, concrete floors, electric light, steel sash, fire doors.

Residences (80), Darnell, Connell, Cypress, West Cobb's Creek Drive and Fern street, Yeadon, Pa. Architect, private plans. Owners, Love & Jacobs, care of Morris Love, 6524 North Sixth street, Philadelphia. Brick, stone, stucco, 2 stories, 16x45 feet, hardwood floors, electric light, plumbing, central heat, shingle roof. Owners will build.

High School (add.), Harper and Hilcrest streets, Morrisville, Pa. Low bidders. Architect, Thomas B. Stockham, Stockham Building, Morrisville, Pa. Owners, School District of Morrisville, William Lair, President, Morrisville, Pa. Brick, steel, stucco, 2 stories and basement, 2 wings, 98x36 feet, red tile roof, bond, excavation, reinforced concrete, metal

lath, plaster bond, metal lath, carpentry and mill work, hardware, cement and tile work, rolled steel skylights, linoleum floors, painting, dumb waiter, bluestone, iron stairs, steel sash, maple floors, roof ventilators. General, Roy Randall, Jenkintown, Pa., \$109,985; Clarence Wallace, Roslyn, Pa., \$117,600. Plumbing, Trenton Plumbing & Heating Co., Trenton, N. J., \$7,984. Heating, S. E. Fillson, Harrisburg, Pa., \$18,838. Electric, J. T. Flanagan, Trenton, N. J., \$6,025.

School Building, Newportville, Bristol road and Prospect avenue, in Maple Shade, at Croyden, Pa. Low bidders. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School District of Bristol Township, Mr. Arthur Seyfert, Secretary, Bucks County, Croyden Public School, Croyden, Pa. Slag roof, dampproofing, excavation, grading, floor hardener, stone masonry, concrete and cement work, brick work, hollow concrete block, cinder concrete block, precast stone, limestone, steel, caulking, flagstone, bluestone, area gratings, brass threshold, kalamein doors, fireproof doors, metal lath, plastering, yellow pine floors, tile floors, rolled steel sash, composition floors, metal toilet partitions, tile and marble work. Clarence E. Wallace, Roslyn, Pa., \$27,238; Stahl & Walton, Willow Grove, Pa., \$28,251. Heating and ventilating, American Heating & Ventilating Co., 1505 Race street, Philadelphia, Pa., \$2,500. Electric, George T. Bailey, Bristol, Pa., \$898. Plumbing, Edgley Plumbing Co., Edgley, Pa., \$4,688.

Pennsylvania Contracts Awarded

Residence and Garage, Drexel Park, Pa. Architect taking bids due as soon as possible. Architect, Harold Edward Williams, Drexel Park, Pa. Owner, Edward L. Schwartz, 5623 Florence avenue, Philadelphia. Stone, 2½ stories and basement, irregular, hot water heat, electric light, metal lath, tile, slate roof, oak and yellow pine floors, plumbing work.

Store Building, Souderton, Pa. Contract awarded Michael Perlick, 463 East Ninth street, Northampton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Keystone Furniture Co., Lancaster, Pa. (Lessee). Brick, steel, 4 stories, 60x112 feet, slag roof, yellow pine floors, hollow tile, elevators, dampproofing, cast stone, iron stairs, fire doors, tile work, vapor heat, electric light.

Store (alts.), \$10,000. Chester, Pa. Contract

awarded A. & A. Construction Co., 1001 Chestnut street, Philadelphia, Pa. Architect, A. Coshland, Chester, Pa. Owner, P. D'Amato, 317 Kerlin street, Chester, Pa. Alterations and new store front.

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Stores (2) (alts. and add.), 27-29 State street, Media, Pa. Contract awarded L. Joseph Harris, 114 Audubon avenue, Wayne, Pa. Architect, private plans. Owner, H. J. Makiver, Front and South streets, Media, Pa. Brick, steel, 1 story, 20x25 feet, slag roof, yellow pine floors.

Two Stores and Apartment, Clifton Heights, Pa. Contract awarded L. Joseph Harris, 114 Audubon avenue, Wayne, Pa. Architect, Charles H. Jester, 7806 Park avenue, Highland Park, Pa. Owner, M. Halfpenny, Clifton Heights, Pa. Brick and stucco, 2 stories, 25x75 feet, slag roof, pine floors, hot water heat, electric light, copper bulks.

Residence, Haverford, Pa. Contract awarded Frank H. Wilson, Ardmore, Pa. Architects, Wallace & Warner, 1500 Chestnut street, Philadelphia. Owner, Clark Grieb, St. David's, Pa. Stone, steel, 2 stories and basement, 60x40 feet, hot water heat, electric light, metal lath, tile and marble, ornamental iron work, cinder concrete block, slate or shingle roof, oak, yellow pine and cement floors, excavation, concrete and cement work, limestone, hardware, plumbing.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Cambria County, R-276, Sec. 4, B-1, Portage Township, Portage Borough, (1) bridge, (1) span, over Conemaugh River, plate girder, excavation, one course reinforced concrete pavement, plain steel bars, fabricated structural steel. Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa., \$25,546.35.

York County, A-6519, Hopewell Township. Bituminous surface treated macadam surface course. W. Grant Raub, Red Lion, Pa., \$55,034.80.

Carbon County, R-550, A-6693, Sec. 2, Mauch Chunk and Penn Forest Townships. McInerney & McNeal, Easton, Pa., \$252,771.12.

New Jersey Construction News

New Terminal Hotel, Atlantic City, N. J. Sketches in progress. Architect, A. F. Amadio, Schwehm Building, Atlantic City, N. J. Owner, name withheld. Brick, stucco, 2 stories, 40x70 feet, Barrett roof, yellow pine floors, hot water heat, electric light, tile work.

Hotel, Avalon, N. J. Sketches in progress. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Mr. Forest, care of architect. Brick, 3 stories, 60 rooms, slag roof, hardwood floors, tile work.

Residence, Margate, N. J. Plans in progress. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, name withheld. Brick or frame, 2½ stories, 26x40 feet, hardwood floors, tile work, electric light.

School, \$200,000. Egg Harbor City, N. J. Plans in progress. Architects, Edwards & Green, Broadway and Stevens street, Camden, N. J. Owners, Board of Education of Egg Harbor City, Frank O. Breder, President; John Braunbeck, Clerk, School No. 1, White Horse Pike, Egg Harbor City, N. J. Brick. Too early for details.

Garage, Magnolia, N. J. Plans in progress. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, name withheld. Brick, concrete block, 1 story, 120x150 feet, slag roof, concrete floors, roof ventilators, floor hardener, fire doors, skylights, steel sash, unit heat, oil burner, electric light.

Deborah Sanatorium, Brown's Mills, Burlington County, N. J. Plans in progress. Will mature after January 2nd. Architect, Frank Grad, 1023 Broad street, Newark, N. J. Owners, Deborah Sanatorium, Dr. S. Holland in charge, 100 Fifth avenue, New York. Brick, steel, concrete, fireproof, 4 stories.

Residence, Ventnor, N. J. Plans in progress. Architect will be ready for bids in 2 weeks. Architect, D. A. Rosenstein, Humph-

reys Building, Atlantic City, N. J. Owner, Dr. W. O. Roop, care of architect. Brick, frame, 2½ stories, 38x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, casement windows.

Trenton Normal School, Pennington road, Trenton, N. J. Plans in progress. Maturity indefinite. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, State Board of Education, Charles N. Leathem, Director, State House, Trenton, N. J. Brick, steel, 2 stories. Too early for details.

School Building (8 rooms), \$100,000. Marlton, N. J. Subject to approval in a few weeks. Architect, not selected. Owners, Evesham Township Board of Education, H. R. Snyder, Clerk, Marlton, N. J.

School (add.), West Sharon, N. J. Owners taking bids due January 3rd. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Deptford Township School Board, Herbert I. Clement, Clerk, R. F. D., Westville, N. J. Brick, 1 story and basement, 80x35 feet, slate roof, pine floors (heating, plumbing and electric work separate).

High School, Washington street, Riverside, N. J. Architect taking bids due December 30th, 9 P. M. Architect, Alexander Merchant, 1 Elm road, New Brunswick, N. J. Owners, Board of Education, Township of Riverside, Burlington County, J. Taylor Neal, President of Board of Education, Riverside, N. J. Deposit, \$25, refunded. Only 15 sets of plans. General construction, heating, plumbing, ventilating and electric wiring. Certified check, 5 per cent.

Office Building (alts. and add.), Burlington, N. J. Architects taking bids due December 19th. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, United States Pipe & Foundry Co., Burlington, N. J. Brick, steel, 3 stories and basement, 60x30 feet, demolition, excavation, brick and hollow tile, reinforced concrete, cork insulation, iron work, bond, slag roof, waterproofing, sheet metal windows, hollow metal office partitions, hollow metal doors, kalamein doors, caulking, screens, cellized oak floors, marble, tile, terrazzo work (plumbing, heating, electric reserved by architect).

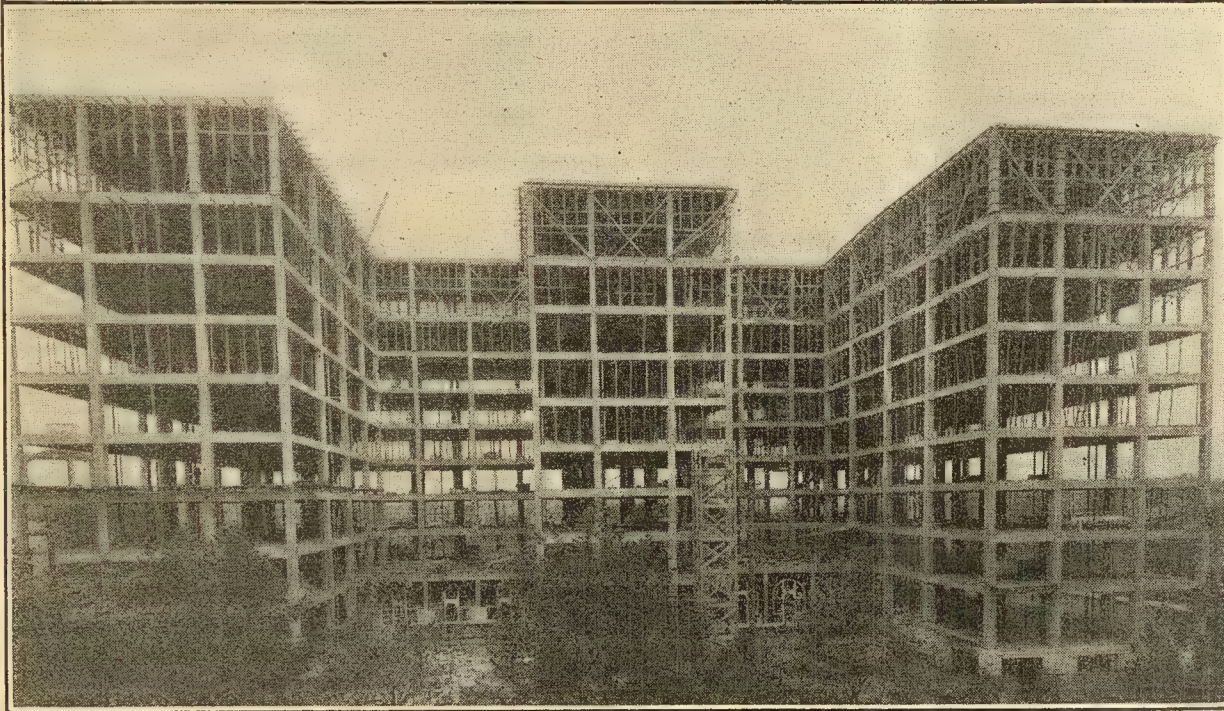
Residence and Garage, Beach Haven, N. J. Architects taking bids due December 23rd, 3 P. M. Architects, Stackhouse & Donohoe, 313 South Smedley street, Philadelphia. Owner, Henry G. Reiffnyder, care of architect. Frame, 2½ stories and basement, 28x70 feet, wood shingle roof, yellow pine floors, plumbing work.

Residence (alts. and add.), Edgewater Park, N. J. Architects taking bids due December 19th. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owner, Mrs. Gilbert M. Wilson, Edgewater Park, N. J. General alterations and addition.

Incinerator, \$200,000. Twenty-eighth street, near Great Egg Harbor Bay, Ocean City, N. J. Owners will be ready for bids about January 15th. Engineer, E. L. Collins, 186 Remsen street, Brooklyn, N. Y. Owners, City of Ocean City, care of City Clerk, Ocean City, N. J. Reinforced concrete, brick, filled walls on pile foundation, 2 stories, 45x80 feet. (Note engineer's name.)

Mathematics Building, Princeton University, Princeton, N. J. Architect taking bids due December 30th. Architect, Charles Z. Klauder, 1429 Walnut street, Philadelphia. Owners, Princeton University, Princeton, N. J.

Hotel (add. and alts.), 127 South Kentucky avenue, Atlantic City, N. J. Owner is building. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City, N. J. Owner, Joseph I. Levy, care of architect. Brick, steel, frame, 4 stories, irregular size, tin roof, pine



Pictured above is the \$2,500,000 Reinforced Concrete Unit of the \$10,000,000 project of The Walnut Plaza Co., at 63rd and Walnut Streets, Philadelphia. It was erected in 69 working days by Frederick Massiah and is one of Philadelphia's largest beam and girder jobs.

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floors, roof ventilators, electric work, tile work, steel sash, skylights.

Residence, Margate, N. J. Owners will build. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City, N. J. Owners, Mahoney Construction Co., Pleasantville, N. J. Brick, frame, stucco, 2 stories, 25x37 feet, slate roof, hardwood floors, electric light, tile work.

Show Room (alts. and add.), Tuckerton, N. J. Owner taking sub-bids. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, R. A. Gerber, Tuckerton, N. J. Steel and stucco, second story add., 40x75 feet, slag roof, wood deck, pine floors, metal weather strip, iron work, plate glass, heating extension, electric light.

Grade School (8 rooms), Westmont, N. J. Architect taking bids due December 27th, 8 P. M. (note due date). Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Haddon Township School Board, J. R. Y. Blakely, President, Westmont, N. J. Deposit, \$15; refund, \$10. Certified check, 3 per cent. Bond, reinforced concrete, brick, 2 stories and basement, 61x87 feet, maple floors.

Occupational Therapy Building (Hospital for Insane), Greystone Park, N. J. Low bidders. Architects, Division of Architecture and Construction, Charles N. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 1 story, 154x95 feet, excavation, reinforced concrete, waterproofing and dampproofing, limestone, iron work, area gratings, metal toilet partitions, steel sash, caulking, ventilating, kalamein doors, steel skylights, metal lath, plastering, hardware, painting, glazing, slate and built-up roof, asbestos roof. F. K. Worley Construction Co., Wesley Building, Philadelphia, \$61,500; Macchi & Company, Somerville, N. J., \$65,000.

Bridge, \$200,000. Great Egg Harbor Bay, between Ocean City and Somers Point, N. J. Revised plans in progress. Engineers, State Highway Department, Trenton, N. J. Owners, State of New Jersey, Trenton, N. J.

Bridge, New Jersey. Route 47, Sec. 4, over Mill Creek, Cape May Co., N. J. Owners taking bids due December 30th at noon. Certified check, 10 per cent. Owners, State Highway Commission, A. Lee Grover, Secretary, Trenton, N. J. Concrete, excavation, structural steel, reinforced steel. Deposit, \$10.

Grade School (8 rooms), Westmont, N. J. Architect taking bids due December 27th, 8 P. M. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Haddon Township, School Board, J. R. Y. Blakely, president, Westmont, N. J. Brick, reinforced concrete, 2 stories and basement, 61x87 feet, maple floor. Deposit \$15; \$10 refunded. Certified check 3 per cent, bond.

New Jersey Contracts Awarded

Store and Residence (1); Residences (25), 1301-51 Browning street, Camden, N. J. \$105,000. Contract awarded Jos. Spector, 1516 Park Boulevard, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Gerardo Brindisi, Camden, N. J. Brick, 2 stories (1) 18 feet by 38 feet; (25) 17 feet 8 inches by 30 feet, slag roof, hot water heat, electric light.

Dormitory Building, Jones Farm, State Hospital, Trenton, N. J. Contract awarded Edward La Rue, 53 South Hermitage ave-

nue, Trenton, N. J., \$40,320. Plumbing, John Black & Son, 134 Prospect street, Trenton, N. J., \$4,925. Heating, Philip Slack & Son, 211 Perry street, Trenton, N. J., \$8,800. Electric, Commercial Electric Co., Newark, N. J., \$1,485. Architects, Division of Architecture and Construction, Charles N. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, stone, concrete block, 2 stories, 121x41 feet, slate roof, linoleum floors, ceramic tile, metal lath, marble work, kalamein doors.

Machine Shop, Florence, N. J. Contract awarded Herbert H. Conway, 7036 Bywood road, Upper Darby, Pa. Architect, private plans. Owners, R. D. Wood Co., 400 Chestnut street, Philadelphia. Brick, steel, reinforced concrete, 1 story, 240x105 feet, slag roof, cement and yellow pine floors, rolled steel sash.

Covered Passageway, New Jersey State Hospital, Trenton, N. J. Contract awarded LeRoy Birkhead, Greenway avenue, Trenton, N. J., \$4,700. Heating, Howard Martindell, 229 Ardmore avenue, Trenton, N. J., \$963. Architects, Division of Architecture and Construction, Charles N. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J.

Church, Trenton, N. J. Contract awarded G. W. Irons & Son, White Horse, N. J. Architect, Walter Hankin, 225 East Hanover street, Trenton, N. J. Owners, Hungarian Reformed Church, Rev. V. Racz, 716 Anderson street, Trenton, N. J. Brick, 1 story and basement, 40x50 feet, slag roof, maple floors, electric light.

Miscellaneous Construction News

Restaurant (alts. and add.), 1065 East Tremont avenue, Bronx, New York City. Architects taking bids due December 23rd. Architects, Stuckert & Co., 1600 Arch street, Philadelphia. Owners, Bickfords, Inc., 362 West Fiftieth street, New York City.

Elevators (Post Office Building), Baltimore, Md. Architect taking bids due January 6th, 3 P. M. Architect, James A. Wetmore, Supervising Architect, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Bond, 50 per cent.

High School Building (add.), Laurel, Del. Owners taking bids due January 7th at 11 A. M. Architects, Guilbert and Betelle, 20 Branford Place, Newark, N. J. Owners, State School Building Commission for the Laurel District, care Dr. H. V. Holloway, superintendent, Board of Education Building, Dover, Del. General construction, masonry, carpentry, steel, iron, roofing (plumbing, heating, ventilating and electric, separate). Certified check 5 per cent. Deposit \$25 refunded.

BULLETIN NO. 10 OF THE STRUCTURAL ENGINEERS SOCIETY OF NEW YORK

And still another. There is the engineer whose "racket" is to induce the owner to employ him to "redesign" the plans for a fee consisting of a percentage of fee. It stands to reason that the job

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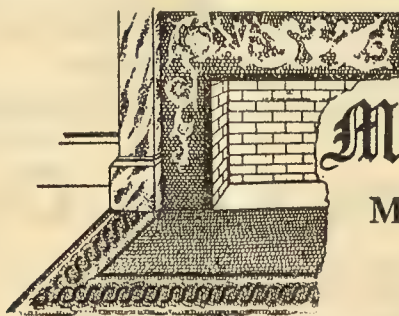
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will be skinned for all the law will allow and then some. Such practices are on a par with those of the lawyer "ambulance chasers" who have been driven out of existence recently in New York.

It is legitimate for an engineer to be employed for a stated fee to redesign a plan to use another type of construction or a patented system of construction which the original engineer may hesitate to use because the patented system would be non-competitive in the first instance. This does not involve any injury to the professional standing of the original engineer. It is usually required that redesigns must be approved by the original engineer. Both are paid their stipulated fee.

The contingent or "half-the-savings" fee system is not only unethical but conducive to practices that reputable engineers do not engage in or approve. There should not be any place in the engineering profession for the "half-the-savings racketeer" engineer. He does not of course belong to the local organization of his profession.

And now *The American Contractor* has taken exception to a statement in Bulletin No. 4, reading: "Is there any valid reason why the structural engineer and the mechanical engineer should not be employed directly by the owner on a parity with the architect?"

Quoting the esteemed *American Contractor*: "In a great many instances both structural and mechanical engineers are already so employed, but what we are interested in is how such an arrangement affects the builder. (Italics ours.) Experience has shown that expedition is re-

tarded, cost is increased, and there is a greater chance of errors and disputes when responsibility and authority is too finely divided. . . The builder today who is in a position to furnish engineering service (and there are hundreds of such organizations) has found that this gives him an advantage in not only securing work without entering into the free-for-all competitive projects, but also in giving a service to the owner that means a greater economy than any amount of price cutting could produce. This is possible only where such engineering service can be produced exactly where and when it is needed and to have such service available, it should properly be a part of the contractor's organization."

Well, well, this is one of the most refreshing indecent exposures of double-distilled egotism and supreme selfishness to be observed in a long time. With rare restraint *The American Contractor* has not advocated the elimination of the independent architect along with the independent structural engineer and everybody work for the contractor. Suppose the contractor assumes the functions of the architect and engineer, what then? In New York there are some examples of contractor-architect-engineer buildings and that is enough. Unfortunately, there is no way to prevent the "blots on the landscape" output of such organizations.

Bulletin No. 4 meant exactly what it said. The architect's fees as established today are inadequate for the mere planning of the complex modern building and the vast amount of administration and co-ordination work required and yield an adequate profit. Either the architect's

fees should be greatly increased to be profitable and provide an adequate fee for the structural engineer whom he employs, or better, both the architect and the structural engineer should be paid larger fees and be employed by the owner independently.

The independent structural engineer is better qualified than the contractor's engineer for two reasons: He has a much more diversified practice and experience which broadens his knowledge and he is not dominated by the contractor's buyer who knows only three words—cheap, cheaper and cheapest.

Recently Dow's Service reported that contractor's profits in New York for the first half of 1929 were 2%—excepting the cost-plus contractors. Let this sink in.

A firm of New York "contractor-engineers" of post-war vintage has recently completed a well known structure. It said "there are enough sub-contractors in New York to take us ten years to break them all." Enough of them went broke on the aforesaid building. Let this sink in.

And yet, *The American Contractor* would have the contractors swallow the structural engineers and eventually the architects! It has another think coming!

Lest we forget:

Correct relations are the basis of social and economic welfare.

On the structural frame hang all of the building and its contents.

Industry intends to take a profit from the financial deflation, declared Charles F. Abbott, Executive Director of the American Institute of Steel Construction today in an address to the structural steel salesmen meeting at the Copely-Plaza Hotel under the auspices of the Structural Steel Board of Trade of New England. Mr. Abbott explained the scheme of co-operation worked out by his industry with the national committee created at the request of President Hoover.

"We expect no slack in business," said Mr. Abbott. "On the other hand, we have good cause to expect an increase in sales along numerous lines. An \$8,000,000 program of building from architectural plans during 1930 is not an unreasonable expectation. In the bulk of this building structural steel will be used. This industry, however, is not entirely dependent upon architectural construction as fabricated steel is used in bridge building, including projects on which architectural assistance is not utilized.

"Since 1921 the construction industry has grown to large proportions although the total building during 1929 will probably be ten per cent. less than during 1928. The 1929 decline was due in large measure to the higher cost of money and the difficulty of selling real estate mortgages at rates deemed reasonable. Had

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money been cheaper during 1929 the volume of building would have set a record for this country. This prophesy is based upon the estimated number of projects on the board of architects during the year.

"Structural steel, however, has enjoyed an extremely prosperous year despite the ten per cent. decline in building generally. The decline was recorded in individual homes, whereas heavy construction projects increased in 1929. A total of some 1,118,000 tons of structural steel was sold in 1921; the sales in 1929 will approximate 3,990,000 tons. This increase during 1929 was recorded in the face of an advancing wholesale price of the material.

"Increased sales of structural steel have been made possible because of the great economies in this type of construction. Prior to 1914 the industry paid labor \$5 per day for erecting steel, today labor is paid \$15 a day in New York. Despite this tripling of the wage cost, improved methods of design, fabrication, handling and erection have kept the cost of structural steel down to a figure comparable to the pre-war cost. It has, however, made necessary a tremendous increase in the investment in equipment and tools, which accounts in no small measure for the tremendous increase in capital in this single industry.

"Statistics of the Bureau of the Census show that for the first ten months of 1929 the structural steel plants of the United States received orders averaging 86 per cent. of monthly capacity. During these same months the plants shipped out at the rate of 79 per cent. of monthly capacity. These figures indicated that there has been a considerable 'banking-up' of orders which should carry the shops over several months into 1930 even though no new orders are received immediately. Architectural plans on the boards, however, indicate that there will be no letting up in this business.

"Numerous schools, hospitals and other public and semi-public buildings were postponed during 1929 owing to the difficulty of floating the necessary bond issues to cover the cost of erection. Interest rates were too high. Several factory projects were postponed until borrowing became easier.

"Owing to the flexibility of the material the industry foresees a constantly increasing market for structural steel. It is not dependent entirely upon the building of bridges and buildings, factories, skyscrapers, etc. Structural steel is used to a considerable extent in the building of airports, hangars; in the utility industry in the construction of transmission towers; in hydraulic projects in the construction of dams, and in canal locks, etc., incident to the increased waterways planned for the country. Measured in general we foresee innumerable oppor-

tunities for the industry during 1930, although it will be necessary to measure the soundness and economy of each project by the local conditions.

"We are inclined to view an annual building program of \$7,000,000,000 in the United States as something above a normal record. While we have reached that figure or approximated it during 1928 and 1929, it is by no means excessive. The construction industry must be measured by the long trend, with full recognition of the fact that it has the 'war years' to overcome when no building was allowed. Seven billions of dollars in buildings is not above the normal and will not care for the normal increase in the population and the business of the country. In this \$7,000,000,000 we must reckon at least \$4,000,000,000 spent to bring old or obsolete buildings up to modern standards. Improvements in housing and new standards of excellence require the scrapping of numerous old buildings and the rebuilding of about \$4,000,000,000 annually. It should require the expenditure of an equal sum again to care for the normal increase, wherefore we believe that an annual expenditure of \$8,000,000,000 a year would more nearly approximate the building needs of 1930."

BRICK'S PERMANENT COMPLEXION

Somewhere, recently, the statement appeared that approximately \$5,000,000 were being expended annually by the women of the country for cosmetics and the various preparations necessary to keep the complexion fresh and radiant. For better than men, the women appreciate that appearances count.

It requires several applications of the lip stick to keep the lips cherry red throughout the day. One application of sun tan is supposed to be ample for any day, but frequently it isn't. Rouge is af-

fected by perspiration and powdering the nose becomes a habit.

But no up-to-the-minute woman neglects her complexion. It just isn't done. One must respect appearances.

It is much the same with houses. Appearances must be kept up. And it would be interesting to know just how many dollars it requires to keep the complexions of the nation's homes in satisfactory condition.

Brick home owners are peculiarly fortunate in this respect. They don't have to worry. The brick house requires no rouge to freshen its complexion. Its beauty is burned in. It does not fade. It lasts.

It but mellows and softens and becomes more appealing with the passing years.—*Building Economy.*

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IT MAY OR MAY NOT BE SO

Usually when a man cannot see or understand how it was that he did not get the job, he immediately looks around for a reason.

The sub-contractor knows that the price he made was as low as the job could be done for, and the general contractor to whom he sent his bid got the job—but has not informed the sub-contractor that the job is his.

In the natural course of events, the sub-contractor meets or calls up the general contractor and says that "Jones' job is mine all right, isn't it?" To which the general contractor replies, "No, I think not, you were not the lowest bidder."

"Why," the sub-contractor ventures to say, "I understood and was told that my bid was the lowest at the time the job was let, how is it that I don't get the work?"

"Oh, well," replies the general contractor, "I don't remember whether that was so or not, but my office man figured up the total bids and I know that you were not the lowest." And that's that.

Now then, the sub-contractor is disgruntled and dissatisfied and thinks he knows why, but has no evidence to prove his contention, so he is sore and everything is wrong with him.

The general contractor questions his man about it, and the man says, "Well, you see it's this way. This fellow was the lowest bidder when the bids were opened, but sub-contractor number two came down here right after the bids were opened and said that he did not have time to get his bid in and submitted his bid, which was \$50 less than the other fellow, so I put his bid in our list—that makes us \$50 ahead to start with."

"Oh, I see," said the general contractor, "but I don't like that kind of business. It doesn't look right to me and I don't countenance that sort of thing."

"Oh, well," replies his man, "the fifty dollars is just as good to you as it is to anybody else. Besides, you know we left out about fifty dollars worth of fancy work in that hall which we admitted we had included in our bid, so that will even up things."

"Well," the general contractor responded, "I don't like that way of doing business just the same."

"Well, then—" replied the office man, "why do these sub-contractors call you up or run around after you and beg you to let them put in a bid after the bids are open. Why don't they clean house themselves?"

The sub-contractor at times thinks that the owner peddles his bids, claiming that if he is not to have the job, if he is the lowest when the bids are opened, that the owner should not ask him to figure the job if he (the owner) does not intend to give the work to him.

Just how much truth and fact are in all this supposition is problematical, but from the talk one hears bandied around, it would seem there are times when just such "goings on" do occur, else, why all the agitation against bid-peddling? If it is but a suspicion, it hurts the business, for it causes men to become disgruntled, keeps things stirred up, injures morale and should be silenced.—*Associated Contractor.*

FACE BRICK COST NEAR ALL-FRAME, SURVEYS SHOW

Additional Expenditure of Three to Eight Per Cent. Covers Difference on the Average

Prospective home builders who want the enduring beauty and freedom from upkeep that face brick brings to homes can have these qualities today at very little extra cost, according to surveys

made in various parts of the country. Instead of dismissing the thought of a face-brick home in the belief that it is beyond his means, the small home owner can possess one by investing only a few hundred dollars additional, the amount depending upon the type of wall construction he chooses.

There are four types of face-brick walls: First, the solid brick wall, face brick with common brick backing; second, face brick with hollow tile or block backing; third, face-brick veneer on a wood frame, and, fourth, the newest type, in which face brick is used with an insulated steel frame.

Steel Framing Developed

The first two types long have been recognized by building authorities as thoroughly sound construction. Both the common brick and the larger masonry units bond perfectly with the face brick and provide a solid wall that offers the utmost in fire safety with maximum strength. The greater thickness of these walls also increases the insulation value, keeping the house warmer in winter and cooler in summer.

The third type, face-brick veneer on frame, is preferred by some builders because it is somewhat less expensive to construct than solid brick or hollow tile and is more quickly erected. The fourth type, face-brick veneer on metal frame, is constructed similarly to the foregoing, with the added advantage of the fire safety and strength of the steel work.

A survey made in the Southeast by the Southern Clay Products Association lists the cost on these types in this order: Face-brick veneer, face brick on hollow tile, and face brick on common brick, with none costing very much more than all-frame.

Comparative Figures Given

A builder carefully estimated the cost of the different types of construction on a typical small house and offered to build at the following figures:

Frame	\$4,238
Face brick veneer on frame.....	4,460
Face brick on hollow tile backing.	4,483
Face brick on common brick backing	4,555

In the Middle West the slight difference in cost between all-frame and face brick veneer on frame was shown by a Des Moines, Iowa, builder, who erected two identical houses, one of frame and the other of face brick veneer. Cost records showed that the face brick house cost but \$85 more than the all-frame, or about three per cent. of the total cost.

Other comparisons of costs have revealed similarly surprising results, and it is now known that permanent construction with face brick need cost but three to eight per cent. more than all-frame construction.—*New York Herald Tribune.*

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TODAY'S BUILDING ESTIMATOR

By I. P. HICKS

Mistakes Are Costly. Avoid Them by Being Sure of Your Estimate. This Book Will Tell You How

It furnishes the estimator with a handy reminder for making a complete estimate of construction work.

The book is good for twelve jobs, as there are twelve sets of blank forms to be filled in. Each form has three pages designed for taking off quantities, so that a complete bill of materials may be made. Following these are pages for tabulating estimated costs and totaling the estimate with space for record of actual cost and profit or loss per item at the completion of a job. It gives a concise, complete job record of great value. Printed on writing paper, a permanent record can be made in ink or pencil.

In addition, the book is an excellent specification reminder. There is a full material check list; data on estimating cement work, plastering, stucco, brick work, chimneys, ready reckoner timber measure and rafter table.

Methods of estimating by the square, lineal foot and by the piece are presented in a handy form, giving quantity of material and the workman's average time for a given amount of work. Presented in a series of tables, there are columns to be filled in for labor cost, material cost and total on each item. Thus, the user of the book can compile his own estimating figures based on local prices for material and labor.

Cloth, 5½ by 8½ inches, 96 pages. Price, \$1.25.

This is a useful book for the man in the building business, written by the well-known author of "Hick's Builders' Guide."

Copies can be secured from Builders' Guide, 1530 Chestnut Street, Philadelphia.

OPERATIVE BUILDERS' ELECT OFFICERS AND PLAN NINTH BUILDING SHOW

At the recent annual meeting of the Philadelphia Operative Builders' Association, held at the Overbrook Golf Club, Henry W. Bauer was unanimously elected president of the organization for the coming year. Mr. Bauer, who has held the position of vice-president for a number of years, succeeds Daniel Crawford, who has held the office of president for sixteen years.

The other officers of the association, also unanimously elected, are: Vice-President, Charles G. Erny; treasurer, James F. Nolen; secretary, Ernest H. Crowhurst, and sergeant-at-arms, Clarence R. Siegel.

John N. McGarvey, who for many years has occupied the position of chair-

man of the Executive Committee, conducted the meeting in the absence of the retiring president. McGarvey, who is also chairman of the Exposition Committee of the association, announced that the annual Home Building Exposition would be held during the week of February 3 to 8, 1930. Many new and novel features have been planned for the show, which will embrace displays of the latest product of the building industry. The Home Building Show is now in its ninth year and has no connection whatever with any other building exposition. It is conducted by the operative builders in the interest of the entire building industry.

This annual show is a "Trade Mart" looked forward to not only by builders, but also home-owners and the public at large.

Prices of floor spaces are the same as previous years, and in addition thereto one-quarter page of advertising space is given to each exhibitor in the official catalogue.

The unusual attendance at these shows is largely due to the fact that no admission fee is charged and invitation tickets are supplied in unlimited numbers, so exhibitors may distribute them among their clientele.

For further information apply to the office of the association, 1503 Finance Building, Rittenhouse 1295.

AN ALLIED CONSTRUCTION INDUSTRY, AND WHY

By MR. GEORGE B. WALBRIDGE, A.G.C.A.
President Allied Construction Industries

This is too big a proposition to let one individual or a number of individuals jeopardize it to the slightest degree. It is the business of all members of the construction industry to see that this Allied Construction Industries program is set up on a proper basis from a national stand-

point with definite assurance of standardization on the part of local groups, so that the whole fabric will dovetail together in such a manner as to render it most effective and efficient. While I am as impatient as anyone in the consummation of this project, it cannot be completed and placed in a position to operate smoothly and efficiently except at the expense of a tremendous amount of time and effort.

We in the construction industry have been contributing to the position in which we find ourselves for a great many years. There are no groups that have not at some time indulged in unsavory, unethical and unbusiness-like practices. Like the proverbial chickens, these have come home to roost.

In order to change the situation, we must start at the end of the thread to commence the untanglement process. Loose credit is the proper point for the construction industry activity. In closing, I wish to state it is my belief that with the satisfactory consummation of the Allied Construction Industry project a great burden will be lifted from the judiciary of the country; that credit losses will be reduced to a negligible quantity in the construction field; that more friendly and harmonious relations will be established between the various groups of construction; that peddling of bids will become an unknown activity; that standard contract forms will become the rule instead of an occasional practice; that the gyp contractor will be absolutely prevented from gyping; that the construction industry will be placed in a position to deal with any individual or group for the safeguards of its interests; and last, but not least, that we will accord to the public a protection and security never known before. We certainly wish to make it possible for the purchaser of a piece of construction work

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to get every bit of value it is possible to give him.

We want the cost of one building to bear some sort of relation to the cost of another building of similar size, not by reason of control but because of having to operate on the same basis. There is nothing that gets the construction industry into so much disrepute as the great difference in the cost of construction projects. Values are judged by comparison and our purchasers, the public, have absolutely no standards of comparison. There are no standards in the construction industry. Stabilize the industry to a degree where the cost of one building bears relation to the cost of a similar building in size and type; and you immediately give or commence to give a standard by which the uninitiated public may commence to judge values.

However, aside from this, it is our obligation, as well as our privilege, to do everything possible to see that the ultimate owner gets as much for his money as it is possible to give him, without detriment to the construction industry. The latter phrase, "Without detriment to the Construction Industry," is important, and one that has seemingly been forgotten by many members of the industry.

Unless the construction industry as a whole is prosperous, it cannot give the kind of service which will merit the esteem of its customers. It is unnecessary for any interested group in a community to wait for a complete industry group organization. Any group can start immediately, and in so doing will influence others to join in.—*East Bay Builder*.

The extent to which new office and commercial building construction can contribute to business activity during the coming year is complicated by the fact that present buildings and buildings now under construction will give more space than can be absorbed at the normal rate, according to the statement of Paul Robertson, of Indianapolis, President of the National Association of Building Owners and Managers, before President Hoover's "prosperity conference."

"Having kept pace with, and even exceeded, the demands for commercial housing during the recent years of great business expansion," Robertson said, "we now stand with those whose interests would be seriously jeopardized by any

curtailment of the normal activity of business and industry.

"The commercial buildings of the country, representing an enormous investment of capital, are singularly dependent upon conditions entirely beyond the control of their owners. These buildings are fixed as to location, size, character and field of service. In good times or bad, they have much the same costs of operation. In the production of a return on the investment, they are limited by fixed factors and their own four walls. They produce no goods that may be carried to market in quantities and at prices subject to the laws of supply and demand, nor can they increase or create a demand for the space they have to offer. They can only serve those who require space in which to transact business. It follows that we look with high favor on such organized efforts as will tend to promote a continuance of the national prosperity.

"The question of what contribution this group may make to the program of production and construction must be considered in the light of facts relating to the business of building operation. These facts are:

1. "On October 1, 1929, vacant space in office buildings amounted to 11.55 per cent. of the total rentable area. This was ascertained in a survey covering thirty-eight cities and including 1676 buildings, with a total rentable area of 140,141,074 square feet. In May, 1929, the vacancy was 11.8 per cent.

2. "The same survey shows that in the thirty-eight cities reporting, there are under construction sixty-eight new buildings, with a rentable area of 13,680,262 square feet. New construction reported on May 1, 1929, amounted to 10,452,211 square feet.

3. "New buildings now under construction will add nearly 10 per cent. to the present supply of space. A major portion of this new space will be on the market on or before May 1, 1930. Assuming the rate of absorption that has prevailed in recent years, we may anticipate a vacancy in May, 1930, of 16 per cent.

"The conclusion to which these facts point is that there is an abundant supply of office buildings in the principal business centers of the country. Moreover, present construction and other buildings definitely projected will add during the coming year more space than can be ab-

sorbed at the normal rate. It will be seen, then, that in the office building field a continuance of good business has been anticipated.

"The construction program in this industry therefore already under way and certain to be completed within the next year, amounts to approximately \$250,000,000. To this should be added another \$50,000,000 which present buildings will spend for alterations and improvements during the year, making a construction total of \$300,000,000.

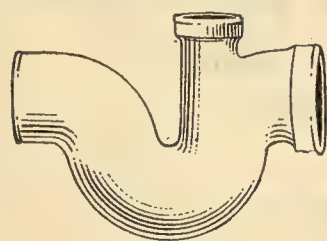
"Needless construction projects would hinder rather than promote the common good. Idle space in buildings mean idle capital. We have seen that the vacant space in office buildings exceeds 11 per cent. of the total and that new construction will add to the supply a volume almost equal to the existing vacancy. The amount of office space estimated to be vacant on May 1st next will represent an unproductive investment of half a billion dollars. It is plain that any further encouragement to construction would result in an inflation that could result only in a very real economic loss.

"The business surveys of the National Association of Building Owners and Managers will show, from time to time, in what communities and in what regions new construction may be encouraged with safety. Assuming no abnormal or unexpected conditions to unsettle the normal status, we propose to encourage throughout the country a comprehensive program of rehabilitation, modernization and repair of buildings and their mechanical equipment. This would include structural changes, the renewal of worn out parts and the repair and redecorating of existing buildings. To this will be added similar treatment of all mechanical equipment including elevators, heating plants, plumbing and electrical installations. Such a program would follow an organized inspection and analysis of all available properties and should result in new business and employment in the construction industry and its allied trades."

RADIATION—PRO AND CON

By Elizabeth Cole

Radio fans abound and recently we are finding radiation fans, especially in the summer. Sun worship of the pagans was no more faithfully pursued than some people nowadays trustfully court the healing powers of golden Apollo. His efficacious faculties are great too, yet like everything else when carried to excess, he can be as strong a force for harm. Why? The curative and beneficial value of the sun is due, not only to the heat, but also to the light given off. Light is an antiseptic and a stimulant. In certain doses it builds up resistance and gives vigor. The light of the sun also acts as a mental stimulus. On a bright sunshiny day our



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spirits are gayer and we feel glad we're alive.

The sun, on the other hand, may have an opposite effect. Under some circumstances and in too sudden or prolonged doses it will produce headache, fever, sleeplessness, loss of appetite, and weariness. Anyone who has suffered from a severe sunburn knows only too well that something serious has happened to his whole system as well as to his skin and that may have blistered.

Because of all the recent interest in sun baths and sunshine treatment and for the benefit of the growing number of radiation fans it may be interesting to explain briefly why the sun has these various attributes. Sunlight, as we see it, is only a very small part of the radiations given off from the sun. When the visible light from the sun passes through a glass prism it is broken up into component parts to form the well-known spectrum of colors—red, orange yellow, green, blue, indigo, and violet. Scientists have proved that beyond the violet rays there are invisible rays or ultraviolet rays. It is these rays that are as important if not more so for some conditions than the visible rays.

Although Herodotus in the fifth century B. C. taught the uses of sunlight as a treatment for certain diseases, it remained for Dr. Rollier of Switzerland to connect the physical benefits of the ultraviolet rays with the ancient knowledge of sun cures. He discovered that these ultraviolet rays were more effective in higher, clearer altitudes—that ultraviolet radiation became greatly diminished in congested, smoky cities. His successful clinic for the treatment of bone and joint tuberculosis at Leysin in the Alps, founded twenty-five years ago, has been an example for many others in foreign countries as well as here in the United States.

The sunbath should be taken out-of-doors in order to get the most benefit

from these valuable ultraviolet radiations. We should expose our bodies gradually—only ten minutes at first and then increase the length of time by degrees, depending on the season of the year. Yet we of the modern day and generation who rush impulsively into everything, are inclined to get our sunshine in too concentrated doses. Into two weeks of vacation we crowd our sunbaths and then the good old Sol is forgotten for another year. We want to come back from a summer holiday and impress our friends with our beautiful tans. We would do well to spread our enthusiasm throughout the year. Just how much daily dosage of ultraviolet rays the average person needs to keep healthy is difficult to say. It varies with the individual. Therefore if we expose our nude bodies in taking sun medicine we should always do so under a physician's orders.

Recently artificial sunlamps that guarantee to supply ultraviolet rays have come before the public attractively advertised as wonder workers. There are many on the market, good, bad, and indifferent, but they should never be used except on the physician's instructions. Certain window glasses, too, are alleged to permit ultraviolet rays to filter through and give the benefit of real sunlight. Some are good but very expensive and the cheap ones are of little value. E. E. Free in a recent article on "These Ultra Violet Rays" in *Harper's Magazine*, says that the artificial sunlamps threaten to become as common an article of household furniture as vacuum cleaners. He also says that instead of depending on them a better plan would be to spend a few minutes in the outdoor sun. Ten minutes in the sun out-of-doors is of as much value as hours spent with most of the substitutes. It must be remembered for the present that they are still but a recent invention. Before fitting out a home with sunlight

substitutes the wise person will consult authorities on the subject.

It may seem strange to be writing of radiation fans in the cold winter months but as a matter of fact the winter sun should be as alluring as the summer sun. Although we of the North cannot sit about in low-cut bathing suits on sun-drenched beaches during the cold season we can sit on the porch, in the park, on the doorstep, or on the roof. We need the healthy benefit of the winter as well as the summer sun.

Inasmuch as sun radiation, or heliotherapy as it is called, is used in the treatment of tuberculosis, specialists in this disease are especially interested in the increasing number of radiation fans. Experiments are constantly being made by the Research Committee of the National Tuberculosis Association to find out all the best methods for preventing and curing tuberculosis. At the present time the tendency is to snatch quickly at fads while experience has taught that it is best to proceed slowly and cautiously. Naturally sunshine is an excellent tonic and most of us get too little of it. Yet we must be intelligent in our usage of sunshine as a medicine on naked bodies.

Christmas seals sold in December support the work of the Research Committee as one element in the campaign to control tuberculosis.

—*Architecture and Building.*

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its hosts of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public associations tending to overcome the natural habit of procrastination.—Making advertising pay.

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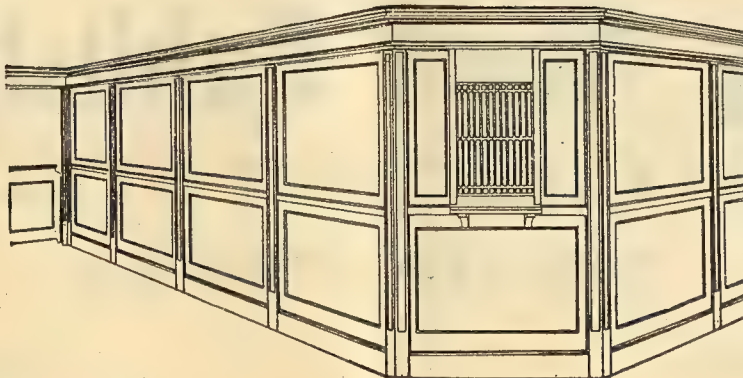
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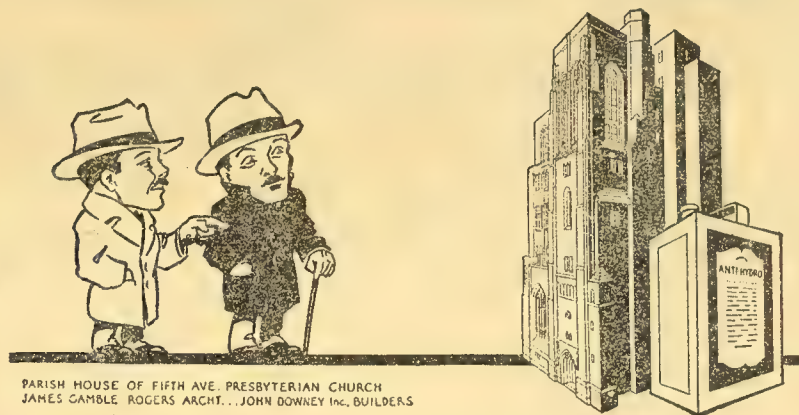
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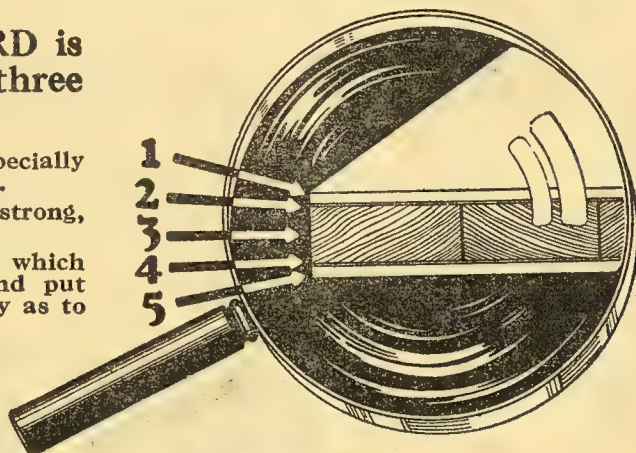
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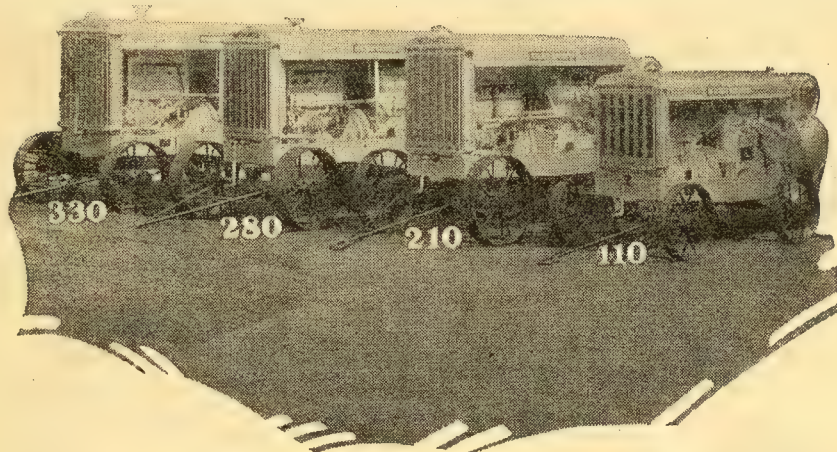
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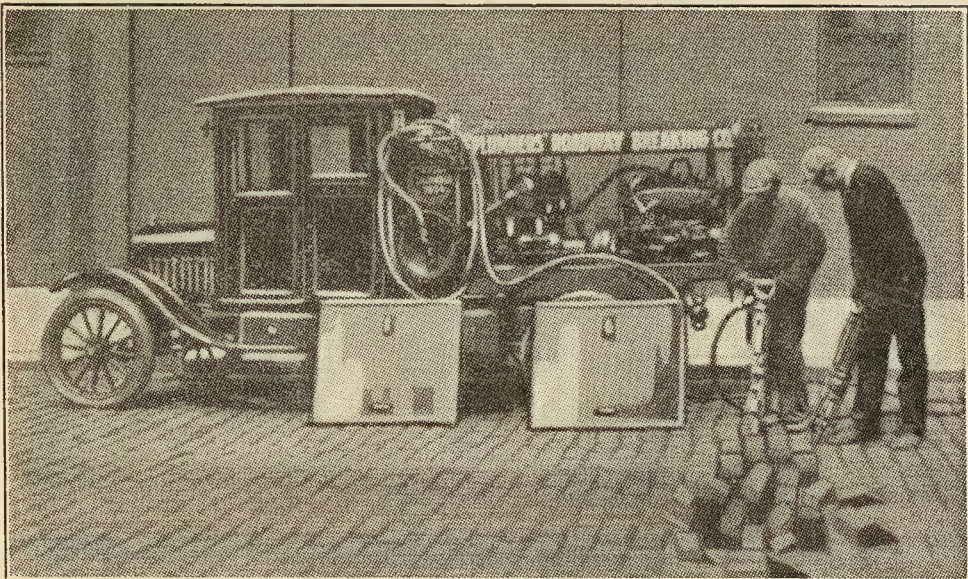
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Devoted to the Advancement of American Architecture, Structural

VOLUME XLIV

Number 52

Engineering and the Building Trades

PHILADELPHIA

December 25, 1929

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PUBLISHED WEEKLY

BY

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Electric Switching and Control Equipment. Contract. No. 218, Section A and B. Owner taking bids due January 7th, noon. Owner, Department of City Transit, C. E. Myers, Director, City Hall Annex, Philadelphia. Furnishing and installing electric switches, etc. Deposit \$25 refunded. Certified check.

Restaurant, S. W. Cor. St. Vincent street and Roosevelt Blvd., Philadelphia. \$2,000. Permit issued. Architect, A. Olivieri, 6943 Torresdale avenue, Philadelphia. Owner, Hugh McHenry, 6943 Torresdale avenue, Philadelphia. Stone, 1 story, 90x40 feet, electric light, pine floors.

Plant, Fifty-eighth and Schuylkill River, Philadelphia. Work contemplated. Owners, Philip Carey Co., care of Mr. Cramer, 2364 Sedgley avenue, Philadelphia. 7-acre site.

Hospital (add.), East side Fifty-fourth street, South of Stiles street, Philadelphia. Work contemplated. Architect, not yet selected. Owners, West Philadelphia Homeopathic Hospital, Fifty-fourth and Stiles streets, Philadelphia. Brick, steel, concrete, 3 stories.

Orthopedic Hospital, on present site, Seventeenth and Summer streets, Philadelphia. Plans in progress. Architects, Bissell & Sinkler, 1520 Locust street, Philadelphia. Owners, Orthopedic Hospital, on premises.

Manufacturing Building, D and Erie avenue, Philadelphia. Revised plans in progress. Architect, Clarence Wunder, 1520 Locust street, Philadelphia. Owners, Charles J. Webb & Co., 116 Chestnut street, Philadelphia. Brick, reinforced concrete, steel.

Philadelphia Navy Yard Improvement, Philadelphia, Pa., \$10,000. Work contemplated. Owners, Department of Wharves and Docks, Washington, D. C.

Auditorium, 4811 Germantown avenue, Philadelphia. Plans in progress. Architects, Stackhouse & Donohue, 313 South Smedley street, Philadelphia. Owners, St. Michael's of the Saints Church, Rev. C. E. Nusca, on prem-

ises. Brick, steel, 1 story, 52x100 feet, slate roof, maple floors.

School and Chapel, Northwest Corner Le-vick avenue and Hawthorne street, Philadelphia. Architect taking bids due Dec. 27th, at 10 A. M. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Timothy's Parish, Rev. Thomas F. Brady, 3121 Robbins avenue, Philadelphia, Pa. Stone and steel, 2 stories and basement, 146x51 feet, excavation, concrete and cement work, structural steel, stone masonry, limestone, brick work, carpentry and mill work, caulking, metal toilet stalls, kalamein doors, steel sash, metal lath, plastering, tile work, plumbing, glazing, hardware, bond, floor hardener, iron stairs, slag roof, ventilator.

Residence, West School Lane, Philadelphia, Pa. Architect taking bids due as soon as possible. Architect, John W. Keyes, 112 South Sixteenth street, Philadelphia. Owner, Moses Brown, 3200 West School Lane, Philadelphia. Stone, 2½ stories and basement, tile roof, oak and pine floors, cement floors (plumbing, heating, electric, tile and linoleum floors reserved).

Elementary School, Fifth and Fitzwater streets, Philadelphia. Owners will be ready for bids in about one week. Architect, Irvin T. Catharine, Nineteenth and Ludlow streets, Philadelphia. Owners, Board of Education, City of Philadelphia, Nineteenth and Ludlow streets, Philadelphia.

Service Station, Ogontz avenue and Middleton street, Philadelphia. Owners will build and will be ready for sub-bids in ten days. Architect, private plans. Owners, Standard Oil Company of Pennsylvania, care of A. M. Holler, Public Ledger Building, Philadelphia. Brick, 1 story, cement work, electric work.

Apartment House, Cliveden and German-town avenue, Philadelphia. Owners taking sub-bids due as soon as possible. Architect, Guy B. Johnson, 25 South Thirty-seventh street, Philadelphia. Owners, Cliveden Corporation, 1016 Colonial Trust Building, Phil-

adelphia. Brick, steel, 4 stories and base-ment, steam heat, electric light, metal lath, tile, bond, steel casement windows, ornamental iron work, slag roof, oak and yellow pine floors. (Note owners' name.)

Gas Station, \$18,000. Southeast Corner Sixty-third and Vine streets, Philadelphia. Permit issued. Architect, private plans. Owners, Pure Oil Co., 35 Wacker Drive, Chicago, Ill. Brick, 1 story, 25x58 feet, cement work, electric work.

Gasoline Station, \$5,000. Northeast Corner Sixty-eighth and Ogontz avenue, Philadelphia. Permit issued. Architect, private plans. Owners, Standard Oil Company of Pennsylvania, Public Ledger Building, Philadelphia. Brick, 1 story, 18x39 feet, cement floors, electric work.

Shop, \$6,000. 2821 Richmond street, Philadelphia. Permit issued. Architect, private plans. Owners, Reading Company, Twelfth and Market streets, Philadelphia. Brick, 1 story, 30x50 feet.

Gas Station, \$3,500. Southwest Corner Front and Loudon streets, Philadelphia. Permit issued. Architect, private plans. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, cement work, electric light.

Gas Station, \$2,500. North side Vine street, East of Fifty-third street, Philadelphia. Permit issued. Architect, private plans. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, 20x42 feet, cement work, electric light.

Gas Station, \$2,500. Northeast Corner Penn and Oxford streets, Philadelphia. Permit issued. Architect, private plans. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, irregular size, cement work, electric work.

Supplies, etc., Philadelphia, Pa. Owners taking bids due December 27th, noon. Owners, Department of Supplies and Purchases, Jay Lit, Director, 302 City Hall Annex, Philadelphia. Fire clay cement and fire brick. Bids

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Viaduct for Arch Street, from West River Drive, Thirtieth street, and for Thirtieth street, from Arch street to Market street, Philadelphia. Owners taking bids due December 27th. Owners, Department of Public Works, Bureau of Engineering and Surveys, City Hall Annex, Philadelphia.

Tunnel, Penrose avenue, beneath Schuylkill River, Philadelphia. Test boring being made to determine whether to build tunnel or bridge. Report will be made in three weeks. Architects, Bureau of Engineers and Surveys, City Hall Annex, Philadelphia. Owners, Department of City Property, care of L. M. Schofield, Director, City Hall, Philadelphia.

Schedule A, Henry Avenue Bridge. Schedule B, grade crossing elimination, Manayunk Elevated, grading, paving, sewers, etc. Contract 103. Owners taking bids due December 27th, noon. Owners, Department of Public Works, Bureau of Engineering and Surveys, 1101 City Hall Annex, Philadelphia. Inquire Room 1101, City Hall Annex. Bids received Room 903, opened Twelfth Floor Corridor, City Hall Annex, Philadelphia.

Supplies, etc., Philadelphia, Pa. Owners taking bids due January 7th, 1 P. M. Owners, School District of Philadelphia, Edward Merchant, Secretary and Business Manager, Nineteenth street, above Chestnut street, Philadelphia. Lumber, tables, brushes, shellac, etc.

Schedule A, construction with appurtenant work, Schuylkill River Bulkhead, West side of Penrose Ferry Bridge, Philadelphia. Schedule B, construction with appurtenant work, West side North of Penrose Ferry Bridge, Philadelphia. Low bidders. Schedule A, H. E. Eyre, 1212 North Delaware avenue, Philadelphia, \$149,139. Schedule B, J. E. Brenneman Co., North American Building, Philadelphia, \$199,549.

Schedule A, construction with appurtenant work, Schuylkill River Bulkhead, West side of Penrose Ferry Bridge, Philadelphia. Low bidder: J. E. Brenneman Co., North American Building, Philadelphia. Schedule B, construction with appurtenant work, West side, North of Penrose Ferry Bridge, Philadelphia. Low bidder: Harry H. Eyre, 1212 North Delaware avenue, Philadelphia. Owners, Municipal Pier No. 4, Bureau of Wharves, Docks and Ferries, foot of Chestnut street, Philadelphia.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Psychopathic Hospital, Philadelphia, Pa. Contracts awarded. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Bureau of Hospitals, Philadelphia General Hospital, Thirty-fourth and Pine streets, Philadelphia. Kober Construction Co., 1616 West Thompson street, Philadelphia, \$234,977. Plumbing, N. Connolly, 1404 North Eighteenth street, Philadelphia, \$26,966.15. Electric, Electro Construction Co., Commercial Trust Building, Philadelphia, Pa., \$8,550. Heating, S. Faith & Co., Inc., 2427 Pennsylvania avenue, Philadelphia, \$33,350. Brick, steel, 5 stories and basement, 30x116 feet, wing 32x64 feet, elevator, bond, demolition, excavation, concrete and cement work, structural steel, cinder block, cut stone, architectural terra cotta, waterproofing and damp-proofing, iron work, iron stairs, carpentry and mill work, hollow metal doors and frames, terrazzo and tile work, marble, rubber floors, plastering, caulking, screens, slag roof, steel sash, steel casement sash.

Manufacturing Building, Erie avenue and "M" street, Philadelphia. Contract awarded A. Raymond Raff Contracting Co., 1635 West Thompson street, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Bachman Brothers, 609 Commerce street, Philadelphia. Brick, reinforced concrete, steel, excavation, stone masonry, granite sills, caulking, iron work, scuppers, ventilators, ventilouvers, cyclone fence, steel sash, hollow metal sash, screens, Carey built-up roof, concrete and gypsum roof

deck, sheet metal work, rolled steel skylights, metal partitions, metal toilet partitions, tin-clad and kalamein doors, corrugated iron garage, 100x16 feet, 1 story, plastering, glazing, terrazzo work, linoleum floors, bath cabinets, integral waterproofing, hollow tile, terra cotta copings, carpentry and mill work, oak floors, steam heating, plumbing, electric work, sprinklers, boilers, 100x210 feet, 2 stories and basement, 40x30 feet, 1 story, steel tanks and hardware reserved.

Church and Parish Building, Northeast Corner Howard and Ontario streets, Philadelphia. Contracts awarded. Architects, Frank R. Watson, Edkins & Thompson, 1520 Locust street, Philadelphia. Owners, St. Ambrose's Mission, F. B. Halsey, Howard and Ontario streets, Philadelphia. Reinforced concrete, brick and stucco, steel, 1 story and basement, 36x65 feet, wing 79x40 feet, steam heat, electric light, metal lath, rolled steel skylights, steel casement windows, Barrett specification roof, tile roof, maple and cement floors, yellow pine floors, dampproofing, cast stone, demolition, excavation, metal toilet partitions, plumbing, hardware. General, H. John Homan, Eighteenth and Cherry streets, Philadelphia. Electric, Morris Newmark & Bro., 1814 Ludlow street, Philadelphia. Plumbing and heating, Wesley S. Smith & Co., 3615 North Smedley street, Philadelphia, Pa.

Cleaning and Dyeing Building, Southwest Corner Media street and Flanders road, Philadelphia. Contract awarded J. Marcello, 1231 North Fifty-first street, Philadelphia. Archi-

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Plant
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teets, Penwood Company, City Center Building, Philadelphia. Owners, Rainbow Cleaners & Dyers, Charles Kassabian, 6544 Lebanon avenue, Philadelphia. Brick, steel, 2 stories and basement, 35x132 feet, reinforced concrete roof and floors, plate glass, rolled steel sash.

Residence (alts. and add.), 3113 West Coulter street, Germantown, Philadelphia. Contract awarded Samuel Harting & Son, 20 East Johnson street, Philadelphia. Architect, John W. Keyes, 112 South Sixteenth street, Philadelphia. Owner, Frank H. Burpee, on premises. Stone, cinder block, stucco, 2½ stories and basement, irregular, hot water heat, electric light, metal lath, shingle roof, oak and yellow pine floors, plumbing, painting and glazing, plastering.

Plant (alts. and add.), Second and Lombard streets, Philadelphia. Contract awarded Albert Dunlap, Jenkintown, Pa. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Abbott's A'lderney Dairies, Second and Lombard streets, Philadelphia. Brick work, structural steel, reinforced concrete, mastic floors, carpentry and mill work, painting and glazing.

Elevators, 223-27 Chestnut street, Philadelphia. Contract awarded Atlantic Elevator Co., Inc., Liberty Trust Building, Philadelphia. Owners, Treasury Department, United States Marine Hospital, Philadelphia. Architect, James A. Wetmore, Supervising Architect, Treasury Building, Washington, D. C.

Moving Picture Theatre (alts.), \$3,500. 1313 Market street, Philadelphia. Contract awarded F. C. Stockholm, 120 North Camac street, Philadelphia. Architect, private plans. Owners, Stanley Company of America, Eleventh and Market streets, Philadelphia. General alterations.

Store and Lodge Building (add.), \$2,000. 8046 Frankford avenue, Philadelphia. Contract awarded Castor & Knauer, 8029 Frankford avenue, Philadelphia. Architect, private plans. Owners, Legion Realty Co., 8029 Frankford avenue, Philadelphia. General alterations and addition.

Club, \$13,000. 4544-46 Almond street, Philadelphia. Contract awarded S. Pietrykowski, 3414 Richmond street, Philadelphia. Architect, private plans. Owners, Bridesburg Polish Club, 4483 Almond street, Philadelphia. Brick, 1 story, 28x95 feet, electric light, slag roof.

Lunch Room, \$2,500. East side Germantown avenue, North of Allegheny avenue, Philadelphia. Contract awarded J. L. Fawley, 2121 Walnut street, Philadelphia. Architects, S. M. Seisel Co., Pittsburgh, Pa. Owners, White Tower System, Inc., Detroit, Mich. Brick, 1 story, 20x22 feet.

Water Cooling Tower, \$7,800. Northwest Corner American and Cumberland streets,

Philadelphia. Contract awarded C. H. Wheeler Manufacturing Co., Nineteenth street and Lehigh ave., Phila. Architect, private plans. Owners, Jefferson Ice Manufacturing Co., on premises.

Gas Station, \$3,000. Southwest Corner Germantown avenue and Hortter streets, Philadelphia. Contract awarded A. Raymond Raff Contracting Co., 1635 Thompson street. Architect, private plans. Owner, Louis Rosengarten, Otis Building, Philadelphia. Brick, 1 story, cement floors, electric light.

Pennsylvania Construction News

Senior High School, Brookline, Pa. Architect will be ready for bids January 4th. Bids due January 24th. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owner, Haverford Township School Board, H. Lyons, president. T. C. Boch, High School Building, Brookline, Pa. 6 room addition.

Garage and Warehouse, Baltimore street, Wilkes-Barre, Pa. \$40,000. Revised plans in progress. Architect, H. A. Maier, Coal Exchange Bldg., Wilkes-Barre, Pa. Owners, Western Feed Co., Israel Katuna, Prop., 72 Baltimore street, Wilkes-Barre, Pa.

Sunday School (rear add.), Maple street between Queen & Duke streets, York, Pa. \$20,000. Plans*in progress. Architect, Will H. Schwartz, 515 Prospect street, York, Pa. Owner, St. Luke's Lutheran Church, John Rutter, secretary Bldg. Comm., 42 W. Market street, York, Pa.

Parochial School, Fifth avenue near Broadway, Scranton, Pa. Architect will be ready for bids in about one month. Architects, Sheridan & Knoblock, Markle Bank Building, Hazleton, Pa. Owners, Holy Cross R. C. Church, care Rev. J. M. Smoulter, 507 Broadway, Scranton, Pa.

Grade School (alts. and add.), Huddell avenue, Linwood, Del Co., Pa. Owner taking bids due January 8th, 8 P. M., 1930, at Huddell Street School Building, Linwood, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, School District of Lower Chichester Township, Raymond C. L. Martin, secretary, Linwood, Pa. Brick, two stories and basement, 112x26 feet, hollow tile, bond, (insurance by owner), excavation, concrete work, reinforced concrete, waterproofing, damp-proofing, brownstone, composition roof, ventilators, maple floors, iron work, metal lath, plastering. Plumbing, heating and electric work separate bid.

Residences and Garage (2), Carroll Park, Overbrook, Pa. Owner taking bids due as soon as possible. Architect, private plans. Owner, Benjamin L. Carroll, 15th and Chestnut streets, Philadelphia. Stone and frame,

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Church, Elm and Oak streets, Conshohocken, Pa. Work contemplated. Architect, not yet selected. Owners, St. Mary's Polish Catholic Church, Rev. Sabastian Jerzak, Conshohocken, Pa. Details undecided.

Consolidated Grade School (add.), Cashtown, Adams County, Pa. Plans in progress. Architect, B. E. Starr, 7 South Market Square, Harrisburg, Pa. Owners, Franklin Township School Board, Charles E. Kuhn, President, Cashtown, Pa. Brick, steel, 1 story, 4 rooms, slag roof, maple floors, roof ventilators (heating, plumbing and electric separate).

Residence, \$35,000. Harrisburg, Pa. Plans in progress. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owner, Frank Master, Keystone Building, Harrisburg, Pa. Stone, frame, 2½ stories, slate roof, hardwood floors, vapor heat, electric light, tile work.

Recreation Building, Swimming Pool, Bowling Rooms, Reading, Pa. Plans in progress. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owner, George Horst, care of architect. Cinder block and steel, 1 story, 150x150 feet, 200x75 feet, tin roof, concrete

floors, roof ventilators, wrought iron pipe, floor hardener, steel skylights, terrazzo, steam heat, electric work.

Mausoleum, Lehigh, Pa. Plans in progress. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, E. A. Smith, R. No. 1, Ambler, Pa. Granite, limestone, tile, marble.

Residence (alts.), Kutztown, Pa. Plans in progress. Architect, H. Raymond Heckman, Baer Building, Reading, Pa. Owner, name withheld. General interior alterations, oak floors, hot water heat, tile work, electric light.

Church, Sunday School, Parsonage and Garage, Amsterdam, Pa. Plans in progress. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Luke's Lutheran Church, Rev. W. E. Pierre, Amsterdam, Pa. Brick, 1 story, 2 stories and 2½ stories, slate roof, tile and composition floors, oil burner, electric work, tile work, casement windows.

Church (Sunday School alts.), Norristown, Pa. Plans in progress. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Christ Reformed Church, Rev. C. T. Glessner, 1009 West Marshall street, Norristown, Pa. Stone, steel, 1 story and basement and 2 stories, 45x73 feet, 53x91 feet, slate roof, concrete, steel and pine floors, hollow tile, waterproofing and damp-proofing, cast stone, kitchen equipment, brass pipe, ornamental iron, casement windows, electric light.

Restaurant and Apartments, Lester, Pa. Revised plans in progress. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Peter Catsanos, Lester, Pa. Brick, steel, 2 stories and basement.

Grade School, \$40,000. Reinholds, Lancaster County, Pa. Architect selected. Plans in progress. Owners will be ready for bids about end of February or first of March. Architect, W. P. Erisman, 44 North West End avenue, Lancaster, Pa. Owners, West Cocalico Township School Board, L. A. Wolf, Secretary, R. D. No. 2, Stevens, Pa. Too early for details.

Moose Home (int. alts. and add.), Broadway, Hanover, Pa. Architect will be ready for bids in about 2 weeks. Architect, James McClyment, Hotel Penn, George and Philadelphia streets, York, Pa. Owners, Loyal Order of Moose, care of architect.

Store and Apartment, 502 Market street, Harrisburg, Pa. Architects will be ready for bids in about three weeks. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Estate of C. Adler & Son, 227 South Third street, Harrisburg, Pa. Brick, steel, 4

stories, 30x110 feet, flat roof, concrete and hardwood floors, city heat, electric light, tile work, casement windows, cast stone.

Junior and Senior High School, Royersford, Pa. Owners will be ready for bids in about one month. Architect, W. Marshall Hughes, 147 North Fifth street, Reading, Pa. Owners, Royersford School District, Mrs. M. Latshaw, Secretary, Royersford, Pa. Brick, steel, concrete, fireproof, 2 stories, 256x95 feet, built-up roof, linoleum or concrete floors, hollow tile, waterproofing and damp-proofing, cast stone, iron stairs, skylights, steel sash (plumbing, heating and electric separate).

Residence, \$22,000. West Market street, York, Pa. Architect will be ready for bids in about two weeks. Architect, J. O. Blair, 330 St. Paul street, Baltimore, Md. Owner, B. Le Compte, care of architect. Stone, cinder block and stucco, 2½ stories.

Hospital, \$300,000. Hospital street, Carbondale, Pa. Architect will be ready for bids very soon. Architect, Raymond Tiffany, 1 Williams street, Carbondale, Pa. Owners, Carbondale General Hospital, Kenneth H. Colville, President of Board of Directors, 89 Lincoln avenue, Carbondale, Pa.

Bank Building, Yardley, Pa. Architects will be ready for bids about February 1st. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Yardley National Bank, Yardley, Pa., Henry W. Comfort, President, Yardley, Pa.

Professional Arts Building, Reading, Pa. Architect will be ready for bids about January 15th. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owner, care of architect. Limestone, buff brick, steel, 9 stories, 30x135 feet, slag roof, concrete floors, elevators, casement windows, iron stairs, kalamein doors, tile, marble, electric light.

Store, Main street, Yardley, Pa. Architects will be ready for bids about February 1st. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Yardley National Bank, Henry W. Comfort, President, Yardley, Pa.

Nurses' Home, \$350,000. Reading, Pa. Textile Machine Co., Wyomissing, Pa., taking sub-bids. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Reading Hospital, William Breiting, Superintendent, Sixth and Spruce streets, West Reading, Pa. Steel, reinforced concrete, brick, 5 stories, 44x268 feet, slate roof, linoleum and rubber tile floors, hollow tile, elevators, safety treads, waterproofing and damp-proofing, limestone, ornamental iron, iron stairs, fire doors, tile work, electric work, heating extension.

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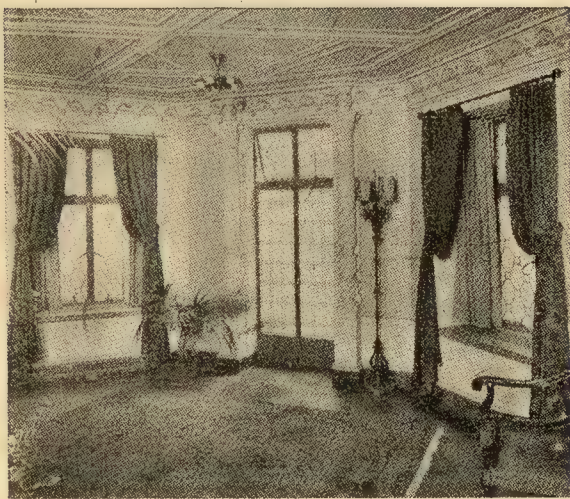
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Store, Upper Darby, Pa. Owner will build and is taking sub-bids. Architect, private plans. Owner, John H. McClatchey, Sixty-ninth and Market streets, Upper Darby, Pa. Brick, 1 story, 80x120 feet, slag roof, plate glass, cement floors.

Residence and Garage, Merion, Pa. Owner will build and is taking sub-bids. Architect, H. H. Kline, 709 Chestnut street, Philadelphia. Owner, Walter McVaugh, 6134 Market street, Philadelphia. Stone, 2½ stories, 30x82 feet, vapor heat, tile, marble, slate roof, hardwood floors.

Residence and Garage, Wynnewood, Pa. John R. Erbe, 2551 North Sixth street, Philadelphia, will build. Architect, W. Ellis Groben, 1051 Sixty-ninth avenue, Philadelphia. Owner, George F. Joly, Jr., care of Philadelphia Blanket Co., 1015 Bodine street, Philadelphia. Stone, 2½ stories.

High School (alts. and add.), near Flourtown, Pa. (Hilerest and West Park avenue). Owners taking bids due at Springfield High School Building, January 7th, 8 P. M. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Springfield Township, Montgomery Co., Pa., Benj. A. Brooks, Secty., Shamokin, Pa. Brick, steel, 2 stories and basement, 54x105 feet, damp-proofing, caulking, waterproofing, iron work, reinforced concrete, hollow tile, excavation, composition roof, rolled steel skylights, roof ventilators, maple floors, metal doors and trim, metal lath, plastering (plumbing, heating, electric work separate bid). Deposit, \$15; \$10 refunded.

Home (alts. and add.), \$100,000. 37 South Eighth street, Reading, Pa. Architect taking bids. Architect, E. Hickman, 148 North Fifth street, Reading, Pa. Owners, Fraternal Order of Oriolies, Nest No. 2, R. C. Clausen, 37 South Eighth street, Reading, Pa. Brick, 2 and 3 stories, 65x115 feet, slag roof, concrete floors, roof ventilators, electric dumb waiter, steel sash, tile, marble, terrazzo, oil burner, vapor heat.

Prison (alts.), Pottsville, Pa. Owners taking bids due January 7th at 10.30 A. M. Architect, D. H. Grootenboer, Schuylkill Trust Building, Pottsville, Pa. Owners, Schuylkill County Commissioners, W. R. Adamson, County Controller, Court House, Pottsville, Pa.

Plant Add., Troy, Pa. Architect taking bids due December 28th, 9 A. M. Architect, W. E. S. Dyre, Land Title Building, Philadelphia. Owner, Troy Engine & Machine Co., Troy, Pa. Brick, steel, 2 stories and basement, 62x75 feet, 2 story addition, 53x52 feet, rolled steel sash, kalamein doors, ornamental iron work, slag roof, cement floors, rolling steel doors,

plastering, painting, glazing, mill work, plumbing.

Road Work, Pennsylvania. Low bidders. (December 19th letting.) Owners, Pennsylvania Department of Highways, James L. Stuart, Secretary, Harrisburg, Pa.

Cumberland County, R-40, North Middleton Township. Bridge over Conodoguinet Creek, (2) span, excavation, concrete, plain steel bars, fabricated structural steel. Ira J. Reigher Construction Co., Harrisburg, Pa., \$34,999.

Allegheny County, R-330, Sec. 6, Baldwin Township, Overbrook and Brantwood Boroughs. One course reinforced concrete, excavation, (2) bridges. S. J. Groves & Sons Co., Minneapolis, Minn., \$477,685.

Berks County, R-160 and Connecting Road, Ontelanee and Perry Townships. One course reinforced concrete, grading and drainage, (3) bridges. Glenside Construction Co., Reading, Pa., \$47,043.

Clearfield County, A-6303, Pike Township. Bituminous surface treated macadam surface course, excavation. A. F. Moreau, Indiana, Pa., \$72,956.

Fayette County, R-366, Sec. 5, Springfield Township. One course reinforced concrete, grading and drainage, excavation, borrow, (2) bridges. William Seiler, Uniontown, Pa., \$309,073.

Bucks County, R-386, Sec. 2, Haycock and Bedminster Townships. Grading and drainage, excavation, borrow, (3) bridges. Ross & Taylor, Inc., Trenton, N. J., \$78,751.

McKean County, R-6384, Foster Township. One course reinforced concrete, grading and drainage. Fred D. Ross, Bradford, Pa., \$55,405.

York County, R-644, North Codorus Township, New Salem Borough. Bituminous surface treated macadam surface course, excavation, borrow, (1) bridge. York Engineering & Construction Co., York, Pa., \$87,234.

Adams County, R-375, Cumberland and Mt. Joy Townships. Bituminous surface treated macadam surface course, excavation, (3) bridges. York Engineering & Construction Co., York, Pa., \$185,816.

Crawford County, R-448, Sec. 1, Oil Creek and Troy Townships, Hydettown Borough. One course reinforced concrete, grading and drainage, excavation, borrow, (1) bridge. J. C. Devine Company, Leadville, Pa., \$221,302.

Monroe County, R-164, Polk Township. Bridge over Middle Creek, reinforced concrete beam, double span, excavation, one course reinforced concrete, concrete, plain steel bars, fabricated structural steel, timber piles. Harold Burger, Kresgeville, Pa., \$9,270.

Carbon County, A-6406, Lower Towamensing Township. One course reinforced con-

crete, grading and drainage, excavation, borrow, (2) bridges. Rudolph & Delano, Tamaqua, Pa., \$323,552.

Lehigh County, A-6392, Whitehall Town-

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ship. One course reinforced concrete, excavation. General Paving Co., Allentown, Pa., \$36,437.

Bedford County, R-356, Sec. 2, Harrison Township. Grading and drainage, excavation, (1) bridge. H. C. Brooke, Uniontown, Pa., \$36,229.

Indiana County, R-631, Sec. 1, A-6593, 6973, Green Township. One course reinforced concrete, grading and drainage, bituminous surface treated macadam surface course, excavation, borrow, double span reinforced concrete bridge. Cooper Construction Co., Clymer, Pa., \$340,479.

Monroe County, R-169, Tobyhanna Township. Bridge over part of Pocono Lake, reinforced concrete beam, excavation, borrow, concrete, plain steel bars, fabricated structural steel, timber piles. Anthracite Bridge Co., Scranton, Pa., \$38,187.

Blair County, R-732, Sec. 1, Tyrone Township. One course reinforced concrete, grading and drainage, excavation, (5) bridges. E. R. Vipond, Hollidaysburg, Pa., \$223,426.

Center County, A-57,523, Sec. 1, Rush Township, South Phillipsburg and Phillipsburg Boroughs. One course reinforced concrete, excavation, borrow, (1) bridge. D. L. Risser, Lebanon, Pa., \$376, 016.

Potter County, R-318, Sec. 1, Genesee Township. Grading and drainage, excavation, borrow. John B. Scheetz, Buffalo, N. Y., \$50,404.

Somerset County, R-186, Sec. 3, Somerset Township. (1) bridge over West Branch of Cox's Creek, reinforced concrete beam, excavation, concrete, plain steel bars, fabricated structural steel. M. F. McCabe & Co., Salisbury, Pa., \$26,052.

Armstrong County, R-188 and 319, Kiskiminetas and South Bend Townships. One course reinforced concrete, excavation, (6) bridges, borrow. S. J. Grove & Sons, Minneapolis, Minn., \$388,200.

Crawford County, R-271, Centerville Borough. Bridge over East Oil Creek, (2) span, plate girder, excavation, borrow, one course reinforced concrete pavement, concrete, plain

steel bars, fabricated structural steel. S. Minter, New Wilmington, Pa., \$57,616.

Mifflin County, R-499, Brown Township. Bituminous surface treated macadam surface course, excavation, borrow. Sherman & Rhodes, Lewistown, Pa., \$40,346.

Northampton County, R-166, Forks Township, Stockertown Borough. One course reinforced concrete, grading and drainage, excavation, borrow, one course reinforced concrete, (1) bridge. Freeman & Zellers, Easton, Pa., \$38,177.

Schuylkill County, R-226, A-6976, West Penn Township. One course reinforced concrete, grading and drainage, excavation, borrow, (2) bridges. W. Grant Raub, Red Lion, Pa., \$542,783.

Road Work, Pennsylvania. Low bidders (December 20th, letting). Owners, Commonwealth of Pennsylvania, Department of Highways, James L. Stuart, Secretary, Harrisburg, Penna.

Centre County, R-219, Section 5, Boggs Township. One course reinforced concrete, excavation, (1) bridge. David Bailey, Morrisdale, Pa., \$34,090.

Tioga County, R-20, Spur, Union Township. Grading and drainage. J. E. Penrod, Johnstown, Pa. \$48,219.

Jefferson County, R-59, Section 2, Brockway Borough, Bridge over Little Toby Creek, 2 span, reinforced concrete beam, excavation, reinforced concrete, plain steel bars, fabricated structural steel. H. N. McNutt, Clarion, Pa., \$34,506.

Bucks County, R-659, Solebury, Upper Makefield and Wrightstown Townships, New Hope Borough. Grading and drainage; excavation (1) bridge. Ross & Taylor, Trenton, N. J., \$92,807.

Somerset County, R-547, Section 1, A-6603, Black Township. One course reinforced concrete, grading and drainage, excavation. D. R. Davis, Johnstown, Pa., \$94,326.

Mercer Co., R-312, Section 2, Sandy Lake and Worth Townships, Sandy Lake Borough. One course reinforced concrete, excavation,

borrow (2) bridges. Geo. S. Hiller & Widner Co., Medina, Ohio, \$364,487.

Luzerne County, R-654, A-6395, A-6679, Hazle Township. One course reinforced concrete, grading and drainage, excavation, borrow. J. J. Leinenbach, Ashland, Pa., \$169,012.

Westmoreland County, R-228, Section 3, Franklin and Washington Townships. One course reinforced concrete, excavation, borrow. C. M. Hall, Delmont, Pa. \$102,613.

Allegheny County, R-681, Section 1, South Fayette Township, Oakdale Borough. One course reinforced concrete, excavation (1) bridge. J. Lee Hummer, Johnstown, Pa. \$389,267.

Dauphin County, A-6600, Jackson Township. Bituminous surface treated macadam surface course, grading and drainage, excavation, borrow. Ira J. Reigher, Harrisburg, Pa. \$53,589.

Pike County, R-167, Delaware and Dingman Townships. One course reinforced concrete, excavation, borrow. Rudolph & Delano, Tamaqua, Pa. \$290,744.

Juniata County, R-193, Beale Township. Grading and drainage, excavation, borrow (1) bridge. Lord & Quigley, Millerstown, Pa. \$77,731.

Bucks County, R-386, Section 1, West Rockhill Township. Grading and drainage, borrow, excavation. Ross & Taylor, Trenton, N. J., \$18,770.

Blair County, R-55, Section R-3, Hollidaysburg Borough. One course reinforced concrete, excavation, borrow. E. H. and L. A. Brua, Hollidaysburg, Pa., \$31,359.

Forest County, R-380, Jenks Township. One course reinforced concrete, excavation, borrow. Geo. S. Miller and Widener Company, Medina, Ohio. \$115,406.

Warren County, R-88, Youngsville Borough, Bridge over Brokenstraw Creek, 2 span, excavation, one course reinforced concrete pavement, concrete, plain steel bars, fabricated structural steel, concrete wearing surface. Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa., \$82,343.

Monroe County, R-165, Ross Township. Bridge over Roscommon Creek, reinforced concrete arch, excavation, borrow, one course reinforced concrete pavement, concrete work, stream bed paving, plain steel bars. Collins & Maxwell, Easton, Pa., \$39,766.

Delaware County, A-6254, Aston Township. One course reinforced concrete, excavation. Dalton Bros., Paoli, Pa., \$62,632.

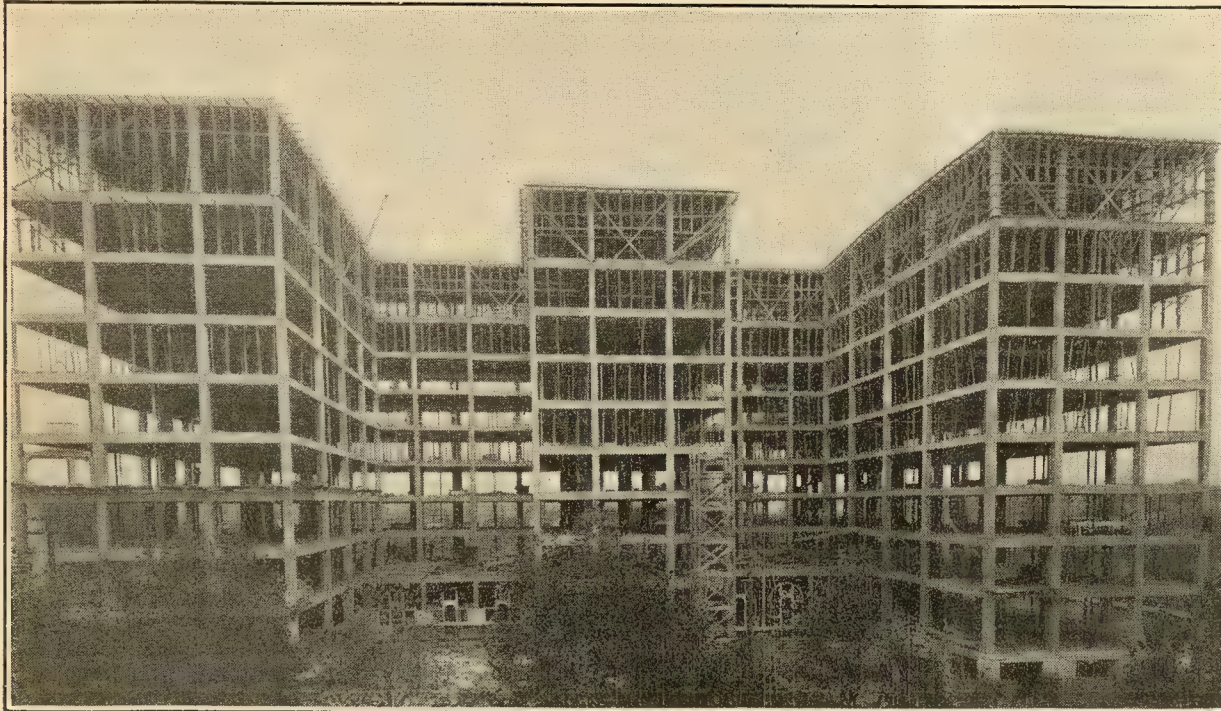
Sullivan County, R-17, Spur, Cherry Township. Grading and drainage; excavation, borrow (2) bridges. Sherman & Rhodes, Lewistown, Pa. \$112,263.

Clearfield County, R-221, Section 1, Bell Township, Newburg Borough. One course reinforced concrete, grading and drainage, excavation, borrow. David Bailey, Morrisdale, Pa., \$166,143.

Pennsylvania

Contracts Awarded

Administration Building, Receiving Office and Ward Building, Farview, Pa. Contracts awarded. Architects, Charles Hillman & Son, 400 Chestnut street, Philadelphia. Owners, Commonwealth of Pennsylvania, Department of Property and Supplies, B. E. Taylor, Secretary, Harrisburg, Pa. Brick, steel, 89x41 feet, 2½ stories and basement, receiving office B, 34x35 feet, wing 24x10 feet, 2½ stories and basement, Ward N, 144x40 feet, 2½ stories, reinforced concrete, bluestone, limestone, iron stairs, tile work, marble and bronze work, soapstone, steel lockers, roof ventilator, slate roof, wood deck, yellow pine floors, hollow metal doors, hardware, metal lath, plastering. General, Stofflet & Tillotson,



Pictured above is the \$2,500,000 Reinforced Concrete Unit of the \$10,000,000 project of The Walnut Plaza Co., at 63rd and Walnut Streets, Philadelphia. It was erected in 69 working days by Frederick Massiah and is one of Philadelphia's largest beam and girder jobs.

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Wesley Building, Philadelphia, \$244,311. Heating, Daniel J. Keating, 613 South Twenty-fourth street, Philadelphia, \$38,776. Plumbing, Daniel J. Keating, 613 S. Twenty-fourth street, Philadelphia, \$14,642.

Residence and Garage, No. 117, Rosemont, Pa. Contract awarded Brown & Dulles, Villanova, Pa., who are taking sub-bids due January 2nd. Architect, private plans. Owners, Thornbrook Development Co., Rosemont, Pa. Stone, 2½ stories and basement, 46x55 feet, hot water heat, electric light, metal lath, tile work, shingle roof, oak and yellow pine floors. Plans and specifications can be seen only at the builders' office.

Bank (alts.), Lancaster, Pa. Contract awarded H. L. Wiant, 544 Mill street, Lancaster, Pa. Architect, M. R. Evans, 10 South Queen streets, Lancaster, Pa. Owners, Conestoga Bank, Penn Square, Lancaster, Pa. General alterations, linoleum and cork floors, metal weather strip, bronze, steel sash, tile, marble.

Gasoline Station, Lancaster, Pa. Contract awarded D. S. Warfel, 452 North Prince street, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, General Tire Co., Roy Bitzer, 214 West Orange street, Lancaster, Pa. Tile, 2 stories, slag roof, concrete floors.

Playground Improvements, West Chester road and North Lynne Boulevard, Highland Park, Pa. Contract awarded Knox Mariani, Ardmore, Pa. Engineers, Damon & Foster, Chester Pike and High street, Sharon Hill, Pa. Owners, School District of Upper Darby Township, J. Milton Lutz, Secretary, School Lane and Lansdowne avenue, Upper Darby, Pa. 3,200 cubic yards grading, 274 feet terra cotta storm drain piping, 8,150 square feet sodding, 112 square yards 6-inch bituminous macadam paving, concrete steps.

Terra Cotta Sewer and Appurtenances, Edgemont avenue, from Twenty-fourth street to North City Line, Chester, Pa. Contract awarded Thomas A. Reilly, Chester, Pa., \$12,179.35. Engineer, City Engineer, G. J. Hunter, Superintendent of Streets and Improvements. Owners, City of Chester. Approximately 975 feet 24-inch terra cotta pipe, 360 feet 18-inch terra cotta pipe, 20 24x5 T. C. T's and 12 18x5 T. C. T's, 5 drop manholes, complete 3-line manholes complete, 20 cubic yards concrete, 10 tons stone. 50 per cent. bond.

Road Work, Pennsylvania. Contracts awarded. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Clarion County, R-311, Sec. 1, Perry Township. Grading and drainage, (1) bridge. R. C. McQuiston, Mercer, Pa., \$46,102.70.

Jefferson County, R-357, Sec. 1, Perry and Oliver Townships. One course reinforced concrete. A. R. Cooper, Idaman, Pa., \$187,120.85.

Lycoming County, R-303, Moreland and Muncy Creek Townships. One course reinforced concrete, (3) bridges. Samuel Domenics, Altoona, Pa., \$262,901.52.

Clarion County, R-218, Sec. 3, Salem and Beaver Townships, Edenburg Borough. One course reinforced concrete, (2) bridges. State Construction Co., New Kensington, Pa., \$245,948.26.

Berks County, R-285, Spur, Greenwich Township. One course reinforced concrete, (6) bridges. E. Riley Mixner & Versaggi Brothers, Ocean City, N. J., \$414,043.85.

Clarion County, R-66, Porter and Red Bank Townships. One course reinforced concrete, grading and drainage, (1) bridge. H. N. McNutt, Clarion, Pa., \$241,181.21.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

New Jersey Construction News

School Building, Marlton, N. J. \$60,000. Plans in progress. Architects, Edwards & Green, Broadway and Stevens streets, Camden, N. J. Owners, Evesham Township Board of Education, H. R. Snyder, clerk, Marlton, N. J. Brick, 2 stories (note changes).

Church and Sunday School, Fellowship Hall, \$225,000. Red Bank, Monmouth County, N. J. Preliminary plans in progress. Too early for details. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, First Methodist Episcopal Church, Rev. Doctor B. F. Rhoades, Red Bank, N. J. Stone, 2½ stories and basement.

Children's Building, Wickatunk, N. J. Architect taking bids due December 31st. Architect, William J. Boegel, 185 Madison avenue, New York City. Owners, House of the Good Shepherd, Wickatunk, N. J. Granite, limestone, steel, 4 stories and basement, 184x43 feet, wing 86x40 feet, bond, reinforced concrete, waterproofing and dampproofing, slag block system roof deck, kalamein doors, slate and tile roof, oak and yellow pine floors, caulking, steel lockers, hardware, bronze work, iron stairs, artificial limestone, artificial travertine, ornamental plaster, marble, tile and terrazzo work, steel casement sash, steel doors.

Store Building, 1142 Broadway, Camden, N. J. Owners taking bids due December 27th. Architect, private plans. Owners, S. S. Kresge Co., care of D. G. Munro, Walt Whitman Hotel, Camden, N. J. Brick, limestone and steel, 2 stories and basement, 60x200 feet, steam heat, electric light, metal lath, tile, bond, or-

namental iron work, slag roof, maple floors.

McKonkey Barn (alts. and add.), near McKonkey Ferry House, Washington Crossing Park, N. J. Owners taking bids due December 26th. Architects, Division of Architecture and Construction, Charles N. Leatham, Director, Department of Institutions and Agencies, State House, Trenton, N. J. Owners, Department of Conservation, Mr. Wilbur, Room 420, State House, Trenton, N. J. Stone (field), 2 stories, 25x40 feet, shingle roof, maple and concrete floors, steel partitions (heating, plumbing and electric separate). (Note changes.)

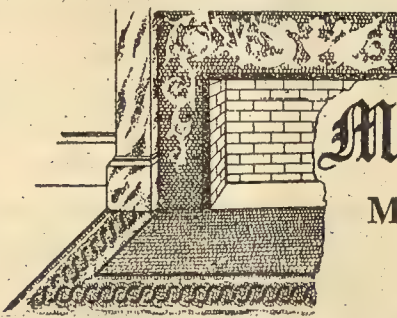
Various Schools, \$600,000. Junior High School addition, Wayne avenue, Pensauken, N. J. Extension of 11 classrooms, gymnasium, locker room, etc. Alterations to present building. Junior High School, Collins Tract, Pensauken, N. J. Addition of 8 class rooms, auditorium, cafeteria and recreation building. School building, Amon Heights, N. J. Wing to building consists of auditorium, 4 class rooms, cafeteria and recreation room. School (add.), Pensauken, N. J. Auditorium seating capacity of 300. Preliminary plans in progress. Bond issue to be voted on in February. Architect, Irvin T. Catharine, Franklin Trust Building, Philadelphia. Owners, Pensauken Township Board of Education, R. W. Doak, Chairman of Building Committee, Pensauken, N. J.

Union Bus Terminal, Fifth and Arch streets, Camden, N. J. Preliminary plans approved. Working plans in progress. Architects, Edwards & Green, Broadway and Stevens street, Camden, N. J. Owners, City of Camden, Dr. Lewis F. Plicher, Camden, N. J. Reinforced concrete underground ramps, passageways, platform, etc.

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Air Station, \$540,000. Lakehurst, N. J. Work contemplated. Owners, Department of Wharves and Docks, Navy Department, Washington, D. C.

School Building, Springfield Township, N. J. Low bidder: Hugh B. Miller, Edgewater Park, N. J. Architect, William H. Kenderdine, Mt. Holly, N. J. Owners, Springfield Township School Board, Mrs. Clifford Borden, President, Juliustown, N. J. 1 story, brick, 40x100 feet.

Tool House, \$9,000. Water Works site, Millville, N. J. Owners will build foundation and will take bids on superstructure. Work contemplated. Owners, City Commission of Millville, N. J., Mayor Jones, Millville, N. J.

Storm Sewer, \$21,500. 12 blocks, Millville, N. J. Work contemplated. Owners, City Commissioners of Millville, N. J., Commissioner Kates, Millville, N. J.

New Jersey Contracts Awarded

Stables for Armory, Camden, N. J. Contract awarded Carl E. Widell, Woodlynne, N. J., \$20,700. Architects, Division of Architecture and Construction, Charles N. Leathem, Director, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, steel, 1 story, 200x30 feet, wing 41x20 feet, asbestos built-up roof, wood deck, cement and clay floors, caulking, cast stone, bluestone, cinder concrete block, ornamental iron, steel casement windows, bond, excavation, demolition, reinforced concrete, painting, glazing.

Nursery Building, Washington Crossing Park, N. J. Contract awarded Frank Dereskiewicz, 102 Lakeside avenue, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Department of Conservation, Mr. Wilbur, Room 420, State House, Trenton, N. J. Cement block, stucco, 2 stories, 25x50 feet, shingle roof, maple and concrete floors (heating and electric work separate).

Church, West Berlin, N. J. Contract awarded Hammonton Building Material Co., Hammonton, N. J. Architect, Emil G. Perot, 1211 Arch street, Philadelphia. Owners, St. Anthony's Roman Catholic Church, Rev. John J. Lucitt, Rector, Waterford, N. J. Stone, 1½ stories and basement.

Miscellaneous Construction News

Residences (33) for Officers, Camp Meade, Md. Low Bidders: Architect, private plans. Owner, Cons., Quartermaster, U. S. Army, Camp Meade, Md. Brick, concrete, 2½ stories, 47x34 feet, 44x34 feet, 2½ stories and basement, steam heat, electric light, slate roof, oak and yellow pine floor. 17 Officers' Residences. P. J. Herter, Greensboro, N. C., \$195,500. W. F. Martins, Rochester, N. Y., \$235,144. 16 Residences Non-Commissioned

Officers. W. F. Martins, Rochester, N. Y., \$119,624. P. J. Herter, Greensboro, N. C., \$120,000.

Miscellaneous Contracts Awarded

Country Residence, Oyster Bay, New York. Contract awarded John McKeefrey, Inc., 755 Seventh avenue, New York. Architect, Henry Corse, 420 Madison avenue, New York City. Owner, Edwin Gould, Oyster Bay, New York City. Brick, steel, stone, 2½ stories and basement, 98x28 feet, wing 65x20 feet, hot water heat, electric light, tile, bond, steel casement windows, ornamental iron work, tile roof, oak and yellow pine floors, excavation, cast stone, iron and steel, plumbing.

Gatekeeper's House, Oyster Bay, N. Y. Contract awarded John McKeefrey, Inc., 755 Seventh avenue, New York City. Architect, Henry Corse, 420 Madison avenue, New York City. Owners, Estate of Edwin Gould, on premises. Brick, 2 stories and basement, 73x20 feet, excavation, concrete and cement work, cast stone, iron and steel, area gratings, tile roof, carpentry and mill work, painting, plumbing, hot water heat, electric work.

Insurance Building, Belair, Md. Contract awarded Bailey & Coale, Churchville, Md. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Mutual Fire Insurance Co., Belair, Md. Brick, steel, 2 stories, 72x42 feet, composition roof, oak floors, hollow tile, roof ventilators, electric light, tile work.

School Building, \$63,939. Clayton, Kent County, Del. Contract awarded John M. Yardley, 1700 Walnut street, Philadelphia. Plumbing, heating and ventilating, T. T. Weldin & Sons, 916 Orange street, Wilmington, Del., \$11,200. Electric, Electric Service Co., 706 West Fourth street, Wilmington, Del., \$680. Architects, Guilbert & Betelle, 20 Branford Place, Newark, N. J. Owners, State School Building Commission, Dr. H. V. Holloway, Superintendent, Board of Education Building, Dover, Del. Brick, reinforced concrete, limestone, steel, 1 story and basement, 138x119 feet, slate and slag roof, yellow pine and cement floors, hardware, safety treads, metal weather strip, bluestone, ornamental iron, iron stairs, bond, metal lath, tile and marble.

THE BUILDING TRADES AWAKE
By A. E. FOUNTAIN, JR.,
Managing Director, Division of Architecture and Building, Lyddon Hanford & Kimball, Inc.

The world's second oldest industry, rudely routed out of its bed of tradition and complacency, stands shivering on the cold floor of progress wondering what it is to do about the new day's business. Its job is to manufacture and distribute the materials for more than eight billion dollars' worth of buildings within a year, and with the help of more than two mil-

lion people (including seven woman stone masons and 171 woman carpenters, according to the latest United States census) get the job done more efficiently, economically and more in harmony with the modern tempo than it has ever been done before.

Poked and prodded into a new consciousness by the demands of modern life, the manufacturing side of that shambling giant, America's Building Industry, finds it necessary to take unto itself new methods of procedure.

If it seems strange to you that the industry that has given us our giant skyscrapers, beautiful churches, theaters and hospitals, finds it first necessary and then difficult to revamp its methods and change its pace, first look into the necessity created by the ever-increasing costs of construction. In spite of the skill of architects and building planners, the use of simpler materials, substitute materials and large-scale production, costs are being driven inevitably upward by unscientific manufacturing, merchandising and selling and by the demands of labor.

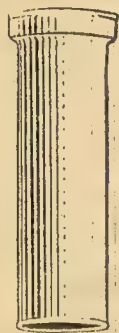
Then consider the difficulty caused by the history of the industry. Ages old, following practices handed down from generation to generation, exacting in its demands for precision, it has become an enterprise in which new methods and processes can be adopted only after repeated cautious trials, because one small error may be fatal to the completed work.

Linked with the Past

Unlike other industries that have grown up within the past few decades depending on flexible modern methods, the building industry is rooted in tradition.

The building industry has been so much a part of our everyday life, so prosaic in its procedure, so local in its practice that it has not attracted the pioneering mind, or when it has, its conservatism and reticence are deep-seated enough to blunt any enthusiasm. Other industries have created a need and grown fat by catering to it. Perhaps the building industry has been so busy catering to an already existing demand that it has had little time to create new markets. Building is as necessary as food. No matter what the cost, the demand will always exist. Conceivably, the industry might pursue its old methods and still supply the demand. But as building demands increase, adding billion to billion in each year's requirements, the individual businesses, forced into national selling through the necessity of finding new markets, are confronted with problems that demand modern scientific methods of production, market analysis, merchandising, selling and advertising.

Perhaps the greatest obstacle now confronting the industry is unscientific production. This refers not only to the actual producing units but to the market.



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analysts that set the production schedules. In many of the older branches of the industry such as iron, tile, hardware, mill-work and natural stones, a large proportion of the individual businesses is buried under antiquated machinery and plant methods that simply do not allow profitable production.

Even if production were scientifically scheduled and styled for the market, which in a majority of cases it is not, these plants could not compete either with the more modern plants in the field or with the great floods of substitute materials offered against them.

After putting its production in order, this industry must then become fully awake to the new and changed market that has grown up around it. The consuming public of building material has, within the past decade, undergone an intensive education and has arrived at a point where it not only knows a lot about materials, their uses and their worth, but has its mind well made up as to what it needs and what it wants, and will buy where it can get it.

For years this public has been sold better buildings from every angle. Little of this selling has been done by the building industry itself. Years ago, magazines started crusades for better and more beautiful homes. The business press has poured into the executive mind the advantages of better planning and construction; wide-awake architects, developers and builders have created better results.

A Few Concerns Keep Up

Automobile travel has made people visibly conscious of the possibilities that come through a better knowledge of design and materials. Here and there certain manufacturing companies, headed by merchandisers rather than manufacturers, have revamped their methods, redesigned and restyled their lines and, backed by consistent advertising, have carried their story to a receptive market with most profitable results.

When the manufacturer of a building product begins to study his consuming public he faces his greatest difficulty, because, though usually a good manufacturer, he is an extraordinarily poor merchant. To appreciate why this is so, it is necessary to go back 40 or 50 years in the history of American building.

At that time all the basic materials—stone, wood, iron and clay—were in everyday use and enjoyed a constant demand. Substitute materials were little known. Architectural design and the needs of industry were undergoing their usual changes, and manufacturers were supplying their needs. But building was a purely local operation. Wherever populations had sprung up the production of material had clustered about that center, intent on supplying its needs. Transportation was too costly to have it otherwise, travel too slow.

Climate and sectional customs helped establish this local outlook. Manufacturers of building materials quite naturally bent their efforts toward producing such things as would most nearly fit the requirements of their known market.

As these local markets grew, local building labor also adjusted itself and fortified itself with habits, customs and laws best adapted to its environment. With this came local building laws, peculiar to the location. So, taking a bird's-eye view of the whole country of 30 years ago, we see scattered across the land—a great many separate self-contained little building industries, all related as to basic efforts and ideals, but independent, almost isolated, so far as their daily practice was concerned.

Precise and Cautious

At the supplying end we find a group of men whose heritage and precedent has grown deep-rooted in the dim past of antiquity. The building mind works precisely and cautiously, leaning heavily on the past and taking nothing for granted as to the future.

All this means that today, when the manufacturer finds himself rudely forced into a national outlook because the spread of population has made purely local markets almost impossible to define and is confronted with the necessity of adapting himself and his product to a nation's needs, he faces a most amazing and complex situation. Most of us build but once, and that once must not only meet our needs but our ideals. Few of us have the same needs or ideals. Thus, when the awakened manufacturer begins to study the national market, he finds groups of individuals requiring widely different materials, designs and prices.

Even Climate Plays a Part

He will find widely divergent standards of life influenced by ancestry, climate, topography of country and business. As extreme instances of this, note the customs of using stone and brick

structures with slate roofs in Pennsylvania, Maryland and Delaware; and stucco with tile roofs in California. Throughout the country we have great differences in the hardness of our drinking water, necessitating corresponding differences in plumbing equipment. Quite obviously, heating equipment designed for Michigan would not be economical in Florida or Louisiana. We will find large cities demanding fireproof materials, and small communities not able to pay for them. We will find that in sections where wealth has come quickly, price is no factor, and where wealth is dwindling no market at all.

Local health and tenement laws vary widely, as do building laws. Recently in the city of Hartford, a public contract that had to be awarded to the lowest bidder went to a Massachusetts company simply because the bond rate in Massachusetts is one per cent. as against one and one-half per cent. in Connecticut. Only a few years ago, various divisions of the industry came under government scrutiny, several of them standing trial, accused of co-operative effort to stifle competition and maintain prices. While there was undoubtedly some ground for the accusation, it was established that geographical limitations and freight rates had much to do with what appeared to be restriction of competition.

Labor also adds to the apparent confusion in the manufacturer's study of his markets. If any manufacturer's survey of the labor market can make head or tail of it, then the surveyor should have a medal of honor for his discovery, for

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apparently no man has as yet been able to do more than guess at what it's all about. In our cities where unionism is strong, it is always hard to forecast beyond a few months what may happen in the way of labor demands. In rural sections labor is likely to be so scarce that without demands of any kind it receives as much if not more than unionized city labor.

Changing style is another problem for the building mind. Style is certainly an important consideration in the mind of the consumer, particularly as applied to the more decorative products. Yet it is quite apparent that many of our large manufacturers have not yet arrived at the point where, left to their own initiative, they even display good taste, much less the ability to follow or forecast style trends.

Although building materials can hardly be classed as general merchandise, manufacturers would do well to tear a leaf from the book of experience of producers of materials sold at retail, and employ competent style counsel to help them follow the demands of a critical public.

You may never have noticed that styles in building change, but it is clear that they do. Every one can remember a few years ago when pebble-dash stucco was a vogue; and how a few years ago paint was the thing for interior walls until wall paper started to fight its way back into popular favor.

Twenty years ago reinforced concrete jumped into well-deserved favor, with steel and wood the losers. What materials so-called modern architecture will demand no man can foretell. We also find an increasing use of brick in city construction because of its economy and adaptability to modern design.

Quite naturally, styles in some materials never change, but a wide-awake producer of these materials can watch the styles in

materials that do change and revamp his product accordingly. But let no man rest secure in the belief that his product is free from change, for we are just at the dawn of the substitute age in building materials.

And Then Comes Distribution

Many manufacturers with a farsightedness akin to genius, having pulled themselves out of the quicksands of production with materials in every way adapted to the new market, find themselves enveloped in the dense fog of distribution. If it is a problem to manufacture for today's building market at a profit, it is a greater one to distribute it. The fatalities occasioned by distribution are far greater than those occasioned by production.

With well made and properly priced and styled materials, and with a known and eager market clearly defined, it seems a simple matter to get wide and economic distribution. But let us review a few actual cases and see whether it has been such a simple matter.

A few years ago the production of plaster wall paint, the material that produces the rough textured surfaces that have until lately been so in demand, came into being in answer to a public swing in taste. One company, getting into the market in the early stages of the demand, went direct to home owners via decorators and architects with its story, and quickly built up a profitable volume of sales.

Within a short time, however, and in spite of a wide spread between its cost and sale prices, it became evident that no great profit would come even with ever-increasing sales. Evidently something was wrong. An exhaustive analysis revealed the trouble. It was the painters of the country. They had to apply this material and seemingly should have welcomed the opportunity to cash in on the new and easy work that popular demand

for this material afforded them.

The Role the Painters Played

On the contrary, and quite inexplicably, it was discovered that, although not antagonistic, painters were extremely apathetic toward this material and would not help in selling it. The discovery of this fact has necessitated a complete and costly revamping of the sales structure of this company, and loss of time with a material having such a style element is a serious thing. A case of insufficient market study and analysis, you say. Perhaps so, but what of the following instance?

A large and successful manufacturer of wood products, a journeyman carpenter himself, thoroughly familiar with tools and a large employer of carpenters, hit upon an idea to improve the old-fashioned hand screw used by all carpenters. Here was a case where it seemed perfectly reasonable to suppose that the manufacturer knew his market.

Yet after he had spent a year perfecting his device, thoroughly testing it in his own shops, and spent considerable money equipping a plant to produce it, he discovered that carpenters would not buy it. Why? Nobody seems to know exactly, even today, six or seven years later. Apparently it is a case of sales resistance built up by unbreakable custom and habit among carpenters.

Similar examples of the difficulties of marketing building materials could be carried on to some length. Wall paper manufacturers have come to the realization that modern business demands the elimination of the wall paper jobber. Conversely, the manufacturers of substitute stones in the form of wall boards, have had to educate local lumber dealers who are in effect jobbers, in the ways to stock and sell a material ordinarily outside their realm. A manufacturer of enameled brick, after 20 years of selling his material as a utilitarian product, now sells it as a decorative medium with astonishing results. Similarly, a window ventilating device, not meeting with success as a hardware item, attains immediate results when sold to architects as a ventilating system.

So you see, as our sleepy old giant looks abroad, he gets more than the expressive "eyeful." But out into the confusion he must go to do the job that has already been too long postponed.

But, if certain conditions and situations confronting the manufacturer selling products to the national building materials market make the future appear dark, other factors present a rosier and more pleasant aspect.

Offers Unexcelled Opportunities

To begin with, the building industry presents opportunities for wealth and service exceeded in no other line of human endeavor. Because of its exacting requirements it may never become a young man's

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business in the sense that others are. But it can, will and must, take unto itself newer and more youthful ways, and in doing so offers to those who shoulder the burden of the change prizes commensurate with the effort.

Let not the confused and bewildered manufacturer earnestly seeking the answer to his new market problem turn aside from the task as unworthy. Such a shirking of responsibility would not be entirely unnatural from the older and richer of the industry, but building needs these older and more experienced heads as they were never needed before.

The prize far transcends dollars. It is better shelter for the nation. An awakened industry will produce better products in the sense that they will be designed more closely for their needs. Better and more modern style will mean homes better adapted to human needs. Goods will be easier to get and easier to pay for. There will be a wider and better understanding of the proper use of building materials. Even if building prices do not go down, we will all get more for our money and will have better, more beautiful homes and factories.

Another bright point in the picture is the inherent stability of the industry, based on the stability of land itself. Except for temporary setbacks, building has always enjoyed an increasing growth. It always has been, is and always will be, the second largest market in American industry—the market in which demand does not have to be created but always exists.

A Stable Industry Throughout

This national market stability also has its counterpart in the separate branches of the industry. It is not within my knowledge that any separate branch of the building industry, once it has become a recognized entity, has ever lost its entity. Quite naturally, individuals within a branch will conflict with one another. But the manufacturer producing roofing, plumbing, hardware, brick, glass or whatever can always have the assurance that no building will ever be completed without this sort of product.

Finally, and most important of all, the reassuring fact about this great industry's future is the unusual way in which its buying factors function.

In no other line of human endeavor does such vast purchasing power lie in the hands of so few people. This small group is divided into four clearly defined sub-divisions—owners, architects, contractors and building supply dealers.

In the entire country there are only about 8,000 architectural offices, nearly 200,000 contractors or sub contractors and approximately 25,000 material dealers. These men are easy to reach either by personal or printed selling.

A little study will make it evident that architects, contractors and dealers are far

more interested in and concerned about the purchase of material from the manufacturer than they are about its resale to the consumer. So, without loss of time or waste of money, the manufacturer can take his wares quickly and cheaply to three of the possible four buying factors.

Nor need there be concern about spending money to reach this market. Architects, contractors and dealers may arrive at decisions about material slowly, may not even be able to buy at once, but when convinced can be counted on as customers who will say "yes" at the buying moment with a conviction based on knowledge and experience, and not on a passing impulse. —*Reprinted from the October, 1929, Number of Nation's Business.*

Thomas F. Armstrong, President of Conkling-Armstrong Terra Cotta Company, also President of the Manufacturers' Club of Philadelphia, was elected president of the Philadelphia Builders' Exchange & Employers' Association at the annual meeting held at the Bellevue-Stratford last week.

Other officers elected were Wm. M. Anderson, first vice-president; H. G. Kepler, second vice-president; W. Nelson Mayhew, third vice-president; Thomas S. Gassner, treasurer. The directors are Walter Bodey, D. F. Durkin, Jr., Robert D. Hamilton, John P. Holleran, C. Albert Kuehnle, John S. McQuade, E. B. Newcomer and Joseph M. Steele.

Selby, Battersby & Co., floorcrafters, announce the removal of both business offices and plant from 810-12 Noble Street, Philadelphia, to larger and more modern quarters. The factory is now located at 49th and Botanic Avenue, Philadelphia. Improved facilities have been provided, and the additional advantage of

sidings from three trunk line railroads has also been acquired.

The new business offices are at the N. E. Cor. of 33rd and Arch Streets, first floor, Wilford Building, Philadelphia. The new location is more convenient—only two blocks from West Philadelphia Station.

Selby, Battersby & Co. products include Selbalith, Selbatex, Tiletex, Good-year Rubber Tile, Mundet Cork Tile, Selbatraz Terrazzo, Levelite, Bird Tile.

At this time of year it is a pleasure to wish all our subscribers, advertisers and readers the Compliments of the Season.

The architectural and building trades have had a somewhat turbulent year, due to the unsteadiness of finances which has caused delay in prospective work, but considering the year as a whole we have a lot to be grateful for. 1929 will not be far behind 1928 in the total volume of building work throughout the country.

The prospects for 1930 are bright, due to the great stimulus given business by President Hoover and his conferences in Washington.

A great proportion of money that was tied up in the stock market will now be available for building purposes, as the lure of making money quickly, in stocks, has been somewhat checked. Conservatism regarding investments will prevail for some time, due to the great set-back many investors received during the recent collapse of the stock market. This will release funds to go into building.

As it is customary at this time to wish everyone "Happy Days" and "A Prosperous New Year," it is not amiss to direct the attention of the builders as well as the sub-contractors to the fact that much more happiness and much more profit will be available if the practice of huckstering bids by a great proportion of

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the contracting industry would be abolished.

Why not give the sub-contractor a profit on his portion of the job? No builder wants to work for love, and it is only natural that the sub-contractor wants to make a fair profit on his job as well. If all general contractors will make a practice of giving the low, responsible sub-contractor his portion of the work without huckstering the bid, everybody would be happier through the year.

Sub-contractors, likewise, should bear in mind that if they expect the general contractors to eliminate huckstering, it is well for sub-contractors to make a resolution not to voluntarily offer to cut bids once they are submitted. The fault is not entirely on the general contractor, as many times the sub-contractor, after putting in a bid, will offer to shade it to get below his competitor.

Every sub-contractor should have sufficient backbone to abide by his bid once it is submitted. The general contractor will then realize that the first bid is final and will not resort to huckstering.

This is the best way we can suggest to the building trades to have a Happy and Prosperous 1930.

While the volume of construction activities continued to be maintained at a level approximately equal to that of last year, and therefore continued to draw on the reserve of contracts awarded previously, there are no definite statistical indications as yet of the expected increase in the volume of contract awards. This was announced by the Associated General Contractors as a result of a statistical survey of construction.

Construction job activities during November as measured by shipments of basic construction materials took a seasonal decline of eight points to Index number 225. The total volume of construction performed during the first eleven months of 1929 as revealed by these figures is approximately equal to the total volume on record for the corresponding period of 1928.

The first indication of a revival in the planning for new construction was seen during the month in the increase of long term state and municipal bond issues which totaled \$118,000,000 for October. The average monthly figure for bond issues during the first ten months of this year was \$109,000,000, compared with \$110,000,000 in 1928 and \$124,000,000 during the corresponding period in 1927.

The increased availability of funds for financing construction through mortgage loans or bond issues has been looked to as a factor which should cause an increase in construction contract volume ever since the stock market decline. It is conceded, however, that a period of adjustment of accounts must be passed through before that effect may be seen in statistics.

A portion of the money released from Wall Street is said to have been temporarily absorbed in taking over mortgage paper on existing buildings which was held by bank clients who were hit in the market. As such seasoned securities find a readier market than new mortgage issues, the financing of new construction has been delayed pending this adjustment, according to the view of the Associated General Contractors.

BIG SPORT ARENAS CASH IN ON AIR CONDITIONING

Chicago Stadium Freezes Ice for Rink and Cools Air with Same Plant

The nation's big sport arenas are following the lead of the theatres in cashing in on the advantages of artificial cooling and controlled ventilation for the health and comfort of the customers.

Through the torrid, sultry days of the summer months, thousands of sport fans in many cities like Detroit, Cleveland, Chicago, Philadelphia, Pittsburgh, Boston and New York, enjoyed watching their favorite games in the balmy temperatures and humidities of a veritable Lake Placid. The result is that maintenance of really comfortable air conditions with

cooling has proven a great boon to indoor sports and is wiping out deficits for the promoters.

One of the most recent of the huge sport arena enterprises to prove the box office appeal of air conditioning during the hot weather, particularly, is the Chicago Stadium—a monument to sportdom. More than 600,000 cubic feet of washed, conditioned air are delivered each minute into the immense inclosure of this building.

In his insistence that the Chicago Stadium should be a civic monument dedicated to sports and public entertainment encompassing the best available in every feature of modern equipment, Patrick Harmon, its head, had placed paramount importance upon ventilation and upon the refrigeration equipment which has served alternately for freezing the ice on the skating rink or for cooling and de-humidifying the air in the great auditorium during muggy summer weather.

In discussing controlled ventilation and refrigeration, Mr. Harmon said that during his long experience in mass entertainment he had always been disturbed by the extreme conditions of discomfort to which the crowds were subjected, primarily due to bad ventilation.

He felt that it was an obligation to the public to provide in a modern building, such as this stadium, only the most healthful, invigorating, atmospheric conditions and that he was sure this feature would serve as an added and profitable attraction to the many events which will be presented.

Mr. Harmon stated that during the planning of the structure he had been forced to waive aside the advice of many of those near him in the consideration of ventilation and refrigeration equipment and to institute an investigation of all that had been done in the conditioning of air within large buildings. This involved tours to other cities. Great theatres, such as the Roxy and new Paramount in New York, were visited. Investigations led even into great industrial plants, where "made-to-order weather" has long served to create the atmospheric conditions most suited to the efficient production of such sensitive materials as Rayon, tobacco and textiles. Experts from many fields were called in to contribute their opinion.

The air conditioning system draws air from out of doors into large spray chambers, wherein it is washed and completely freed from all dust and contamination which aerologists now call "air sewage." Within this system also the temperature and humidity are automatically adjusted to produce the conditions of maximum comfort within the stadium. The air is distributed through a metal duct system to carefully designed and located outlets throughout the stadium.

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MODERNIZING PLACES A NEW VALUE ON THE HOME

By C. A. STERLING,

Secretary, Capitol Building and Loan Association, Topeka, Kan.

From the American Building Association News

Home modernizing with us is not a hobby, neither is it any longer an experiment. Several months before the national organization started, we had begun this program and convinced ourselves that it paid, not only in dollars and cents to the borrower, and to the association, but to the community and to the city.

People are constantly changing from the old to the new, in an attempt to keep up with the modern trend. It is only natural that a housewife should want convenience. It is only natural that she would want new furnishings, and the furnishings of today require a background. It is not surprising that the wage-earner of the family becomes dissatisfied in paying money into an old dilapidated home. He wants something to which he may proudly point and say, "This is my home, of which I am proud," and really have something to show to justify this statement.

We have found borrowers becoming delinquent, who, when questioned, have really had no reason for not making payments, except that they had become dissatisfied and might let the mortgagee take the place. When questioned about the neighborhood, we would find that they had no objection to it. They were close to schools, churches, city playgrounds and parks for children. The taxes were not high, the house spacious and comfortable, but the kitchen was almost unbelievable and could never be made to suit. It had an old flatrim sink in the corner. An old cabinet built over the chimney. One long narrow window for light and practically no ventilation. It was so poorly arranged that they felt that nothing could be done about it.

We suggested that our appraiser be given the opportunity to study it with them and in a few days he gave his report. For about \$275.00, he thought the kitchen could be rearranged. A contractor's estimate verified these figures and the work started. The long narrow window was removed and two short twin windows were installed just high enough to allow a fine sink to be installed, and the little old dreary cabinets by the chimney removed. In this end of the kitchen, where the old kitchen cabinet once stood, was ample space for the ice-box. There was no window in this end of the room. A small one was installed just above the ice-box and a door with a panel of glass in the upper part, replaced the old paneled door that led to the back porch. New in-laid linoleum of modern pattern and design was put on the floor and the kitchen finished in bright colors.

With this slight expenditure, the home has been made more livable to the family, more valuable to the owner, and more salable, should they wish to sell. This is only one case out of the many that come to us each month.

This modernization idea cannot be entered into half-heartedly. We realized that the average contractor was not able to originate plans for modernizing. With this in mind, we found an architect who would lend his services for plans for \$10.00, and with this price established, it was not difficult to convince the borrower that his services were important. Then we recognized the fact that we ourselves must be experienced in this work before we could competently advise other people, and so we took our own houses and began to modernize them. From the experience we gained in this we developed until we had no fear in recommending policies to our borrowers. The success of these experiments has been proven by the response from the people who have rented or purchased these houses.

Modernization does not mean that a house must be entirely reconstructed from basement to garret, but it does mean that the important element be supplied. In one house it is the kitchen, in another it is the bath, in another it is the exterior. Nearly two years of experience in this work have proven to us that paper and paint are not the most important elements in home modernization. Massive dark porches have given way to compact entrances, allowing more light to enter the house and clearing the way for much better ventilation. Porch scrubbing threatens to become a lost art and this is one drudgery that the housewife is glad to see go.

The average house requires new hardwood floors, new light fixtures, wall plugs and floor plugs for electrical equipment. The living rooms need to be larger in order to accommodate the more massive furniture of today. The dining room can be smaller and sometimes entirely eliminated, if a spacious breakfast nook has been provided.

The kitchen and bath are the two most important elements in modernization, unless it be the heating. More women are made unhappy in this world because of poorly arranged kitchens than through almost any other cause. Many unhappy days are begun, and ended, because of poorly arranged bathrooms. Imagine arising in the morning, still weary from life's heavy burdens, and going into a bathroom and trying to find that old plug for the lavatory, which has long since become detached from the chain. And trying to shave, using cold water, gazing into a mirror about the size of your hand, and in the meantime, trying to hold your head on one side so that the ceiling light will not shade the mirror. Then, waiting for ten minutes while enough water runs through the old faucets into the old tub

so that you can take a hasty cold plunge. Then, if you go down stairs to breakfast, which the wife has spread on the kitchen table, which is half covered with lard-pails, breakfast food boxes and all sorts of kitchen equipment, because there is no cupboard space for it, and the toast happens to be burnt a little bit, what a terrible start a man would have toward a perfect day. Contrast this with the modern bathroom of today, supplied with hot water from the automatic heater in the basement, a shower-bath instead of a plunge, and a man will go to his breakfast whistling, eat burnt toast, and never know the difference. He won't forget to kiss his wife goodbye when he starts to work and she will sing about her work and everybody will be happy.

Another very important element is the heating. The type of furnace should be suited to the house and while this might be gauged by the amount of money that is to be spent, yet there are certain types of houses that are suited to only one method of heating and this should be carefully considered. Many unhappy situations are found where the house is improperly heated. It takes more than the advice of the furnace salesman as a rule to decide this question. It takes the practical experience of some one in your institution.

The average individual is not able to see any beauty in a kitchen where the dirt on the floor is an inch thick and the corner is piled full of tin pans. They cannot imagine just how a room would look with the window changed and built-in features added. It is useless to try to rent or sell this kind of an arrangement to any woman who has the least sense of pride. This work should all be done before she is ever taken to the house and asked to pass judgment upon it. Many a house fails to sell simply because some one element is missing.

We recall the case of one little house that was a perfect beauty from the outside. The interior was nicely arranged and everything in excellent condition, but it was some little distance from city water and there was no sewer. The property was too good for a poor purchaser and yet not good enough for the family who could really afford to own it. We finally awoke to this situation and installed city water, bath, and septic tank, and the property sold. It required only this small added touch to make it desirable.

There is no doubt but that many foreclosures have been avoided in our association and many discouraged home-owners developed into contented ones through modernization. During the past, our association has been compelled to handle quite a number of homes and it has been a real problem to take these and either dispose of them, or rent them. Anyone who has had any experience will know, that rarely ever is a home given up that is in good condition.—*Home Modernizer*.

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Weber, F., Co. 125 S. 12th St., Phila.

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Livezey Linoleum Floors, Inc. . . 128 S. 19th St., Phila.

LUMBER

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MARBLE AND MOSAIC

Belfi Bros. Co. 1923 Market St., Phila.
Franklin Tile & Mosaic Co. . . 1344 Ellsworth St., Phila.
Italian Marble Mosaic Co. . . . 433 Spruce St., Phila.
Pennsylvania Tile & Mosaic Co. . 1637 Wood St., Phila.
Roman Mosaic & Tile Co. . . . 435 Green St., Phila.

MASON BUILDER

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WALL BOARD

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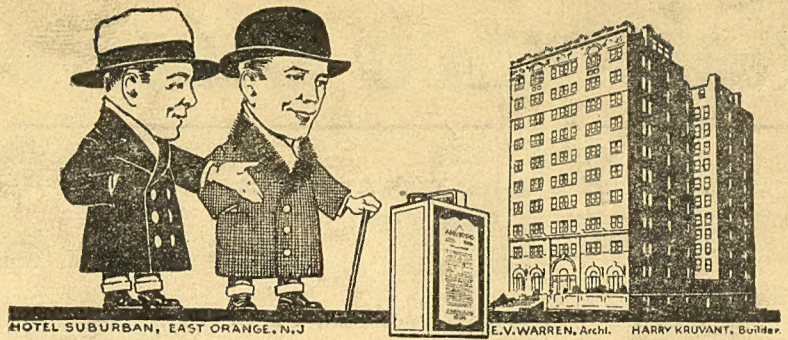
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